



IC Recorder

Operating Instructions

[Click! You can direct jump](#)

Table of contents

Recording files

Utilizing your computer

Troubleshooting

Index

GB

4-421-477-11(1)

Table of Contents

WARNING	5
Notice for users	6

Preparing the recorder

Checking the Parts and Controls	7
Using the Display Window	9
Preventing Unintentional Operations (HOLD)	14
Maintaining the Moderate Volume Level (AVLS) (For European models only)	15
Turning the IC Recorder On	16
Inserting a battery	16
Turning the power on	17
Turning the power off	17
Setting the Clock	18
Setting the clock after preparing a power source	18
Setting the clock using the menu	19
Setting the Language to Be Used in the Display Window	21
Selecting a Folder, File, and Tab	22
Selecting a folder and a file	22
Selecting a tab	23

Recording Files

Basic Recording	24
Monitoring the recording	25
Stopping the recording	26
Other operations	26
Changing the Recording Settings	27
Selecting a recording scene for each situation	27
Tips for better recording	28
Changing the Scene Select settings	29
Changing the Scene Select setting to the default values	30
Starting to Record Automatically in Response to Sound – the VOR Function	31
Recording via Other Devices	32
Recording with an external microphone	32
Recording from other equipment	33

Playing Files

Basic Playback	35
Stopping playback	35
Other operations	36
Display when playing back a file	37
Changing the Playback Settings	38
Reducing noise in the playback sound and making the human voice clearer – the noise cut function	38
Adjusting the playback speed – the DPC (Digital Pitch Control) function	39
Selecting the sound effect	40
Selecting the play mode	42
Convenient Playback Methods	44
Listening with better sound quality	44
Searching forward/backward during playback – Cue/Review	44
Quickly locating the point you wish to start playback – Easy search function	45
Selecting a Recording Date from the Calendar and Playing Back	47
Playing Back a File at a Desired Time with an Alarm	49
Playback via Other Devices	51
Recording with other equipment	51

Erasing Files

Erasing a File	52
Erasing All Files in a Folder	53

Editing Files

Arranging Files in a Folder	54
Moving a file to a different folder	54
Using a Track Mark	55
Adding a track mark	55
Erasing a track mark	56
Erasing all the track marks in the selected file at one time	57
Dividing a File	58
Dividing a file at the current position	58
Dividing a file at all the track mark positions	59
Renaming a Folder and a File	60
Changing a folder name	60
Changing a file name	61
Protecting a File	62

Continued ↓

About the Menu Function

Making Settings for the Menu.....	63
Menu Settings	64

Utilizing Your Computer

Using the IC Recorder with Your Computer	77
Connecting the IC recorder to your computer	78
Structure of folders and files.....	79
Disconnecting the IC recorder from your computer	81
Copying Files from the IC Recorder to Your Computer.....	82
Copying Music Files from Your Computer to the IC Recorder and Playing Them Back	83
Copying a music file from your computer to the IC recorder (drag and drop)	83
Playing back music files copied from your computer using the IC recorder	84
Using the IC Recorder as USB Memory	85

Additional Information

Using a USB AC Adaptor.....	86
Disconnecting the IC recorder from the AC outlet	86
Precautions	87
Specifications.....	89
System requirements	89
Design and specifications	90
Battery life.....	93

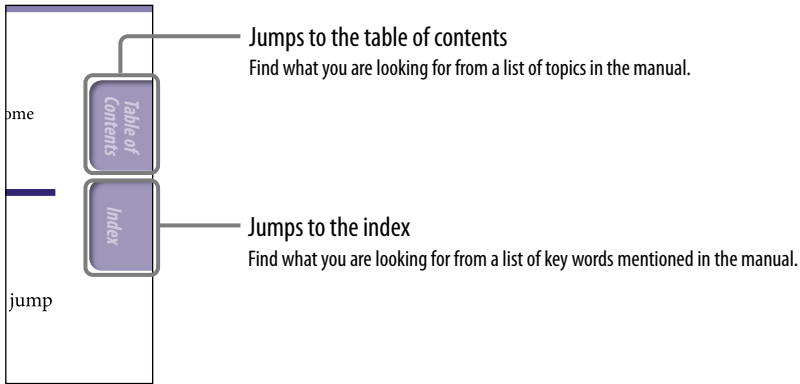
Troubleshooting

Troubleshooting	94
On the IC recorder operations	94
Messages List	100
System Limitations.....	103
Trademarks.....	104
Index	105

Browsing the Operation Guide

To use the buttons in the Operation Guide

Click the buttons located in the upper right of the pages of this manual to jump to “Table of Contents,” or “Index.”



Hints

- You can jump to the indicated page by clicking a page number in the table of contents or in the index.
- You can jump to the indicated page by clicking a page reference indication (e.g.,  p. 6) on each page.
- To search for a reference page by keyword, enter the keyword into the find text field on the Adobe Reader window.
- Operation procedures may differ, depending on your Adobe Reader version.

To change the page layout

The buttons on the Adobe Reader window enable you to select how pages are displayed.



Continuous

Pages are displayed as a continuous roll of pages, fitting the page width inside the window. When you scroll, the previous or next pages scroll up or down continuously.

Single Page

Pages are displayed one at a time, fitting the page into the window. When you scroll, the display changes to the previous or next page.

WARNING

Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

- The recorded music is limited to private use only. Use of the music beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/ downloading or damaged data due to problems of the IC recorder or computer.
- Depending on the types of the text and characters, the text shown on the IC recorder may not be displayed properly on device. This is due to:
 - The capacity of the connected IC recorder.
 - The IC recorder is not functioning normally.
 - Content information is written in the language or the character that is not supported by the IC recorder.

Notice for the customers: the following information is only applicable to equipment sold in the countries applying EU directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

To prevent possible hearing damage, do not listen at high volume levels for long periods.



Notice for users

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IN NO EVENT SHALL SONY CORPORATION BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, WHETHER BASED ON TORT, CONTRACT, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS MANUAL, THE SOFTWARE OR OTHER INFORMATION CONTAINED HEREIN OR THE USE THEREOF.

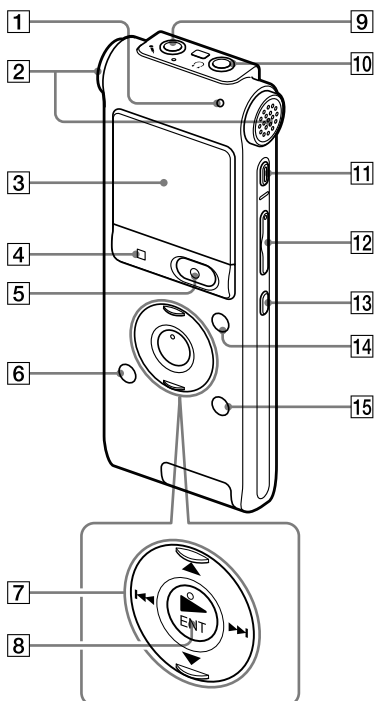
Sony Corporation reserves the right to make any modification to this manual or the information contained herein at any time without notice.

- The software described herein may also be governed by the terms of a separate user license agreement.
- The supplied connection support cable is for the IC recorder ICD-UX502. You cannot connect other IC recorders.
- Display windows in this manual may differ from what are actually displayed on your IC recorder depending on the area you purchased the IC recorder and the settings you have made.

What you record is for personal enjoyment and use only. Copyright laws prohibit other forms of use without the permission of the copyright holders.

Checking the Parts and Controls

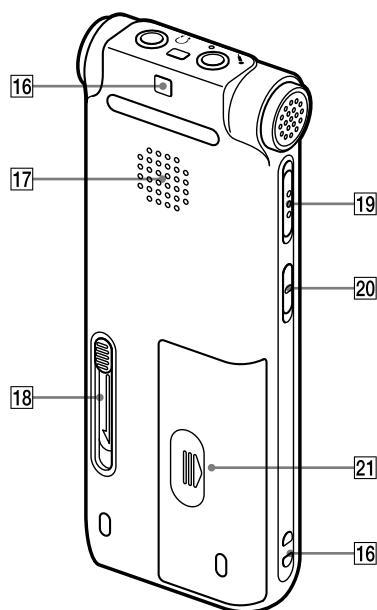
Front



- 1** Operation indicator
- 2** Built-in microphones (stereo) (L/R)
- 3** Display window
- 4** ■ STOP button
- 5** ● REC (record)/PAUSE button
- 6** 📁 (folder) button
- 7** Control button (▲, ▼ / ⏮ ⏭ (review/fast backward), ⏪ ⏩ (cue/fast forward))
- 8** ▶ (play)/ENT (enter) button*
- 9** 🎧 (microphone) jack*
- 10** 🎧 (headphone) jack
- 11** ERASE button
- 12** VOL (volume) -/+* button
- 13** ↺ (repeat) A-B button
- 14** T-MARK (Track mark) button
- 15** MENU/NOISE CUT button

* These buttons and the jack have a tactile dot. Use it as a reference point for operations, or to identify each terminal.

Continued ↓

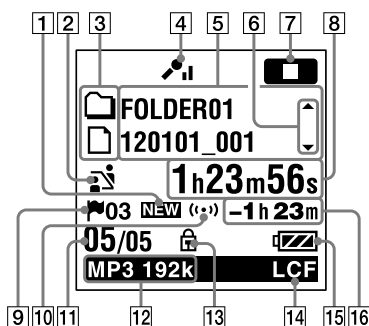
Rear**16 Strap hole**

(A strap is not supplied.)

17 Speaker**18 USB DIRECT slide lever****19 HOLD-POWER switch****20 DPC(SPEED CTRL) switch****21 Battery compartment**

Using the Display Window

Display when stopped



Note

The above window and the other windows in this section display indications, numbers, or items for explanatory purposes. The actual windows may differ from those displayed here.

1 Newly arriving podcast indication

2 Scene select indication

Displays the currently selected scene used for recording. Appears when a scene is set.

- Meeting
- Voice Notes
- Interview
- Lecture
- Audio IN
- My Scene

3 File information type indicator

- A folder where you can record a file
- A folder for playback only
- A folder for podcast files
- Title name
- Artist name
- File name

4 Microphone sensitivity indicator

Displays the currently selected microphone sensitivity used for recording:

- High
- Medium
- Low

5 File information

Displays the information for each file according to the file information type (folder name, title name, artist name, file name).

6 Operating guide for switching file information

You can switch the file information display in sequence by pressing ▲ or ▼.

7 Operation mode indicator

Displays the following, depending on the current operation of the IC recorder.

- stop
- playback
- recording
- recording pause (flashing)
- recording with the VOR function

recording pause with the VOR function (flashing)

If you press ● REC/PAUSE to pause recording when “VOR” is set to “ON” in the menu, only “” flashes.

sync recording

sync recording pause (flashing)

-   : review/fast backward, cue/fast forward
-   : going backward/forward continuously

8 Elapsed time/Remaining time/Recording date and time indication

9 Track mark indicator

Displays the track mark number just before the current position. Appears when a track mark is set for a file.

10 Alarm indicator

Appears when the alarm is set in a file.

11 File location indication

The selected file number is displayed in the numerator and the total number of files in the folder is displayed in the denominator.

12 Recording mode indicator

Displays the recording mode set using the menu when the IC recorder is in the stop mode or recording mode, and displays the recording mode of the current file when the IC recorder is in the playback mode.

 ,  ,  ,  :

MP3 file recorded or transferred with the IC recorder

When the files are transferred from your computer, file formats only (MP3) are displayed.

 : WMA files transferred

 : AAC-LC files transferred

Displays as follows when the IC recorder cannot get the recording mode.

 : Unknown

13 Protect indicator

Appears when the protection is set for a file.

14 LCF (Low Cut Filter) indicator

Appears when “LCF(Low Cut)” is set to “ON” in the menu.

15 Battery indicator

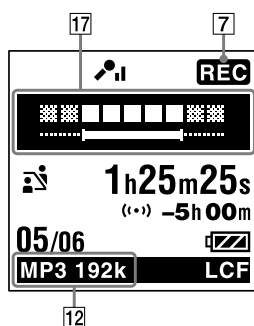
16 Remaining recording time

Displays the remaining recording time in hours, minutes, and seconds. If there is 10 hours or more time remaining, the time is displayed in hours.

If there is 10 minutes or more and less than 10 hours time remaining, the time is displayed in hours and minutes.

If there is less than 10 minutes time remaining, the time is displayed in minutes and seconds.

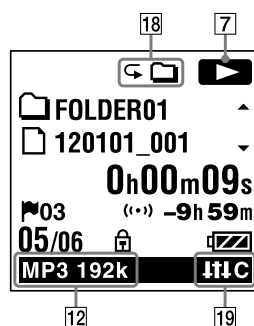
Display when recording



17 Recording level guide display

Displays the recording level and the optimum level for recording.

Display during playback



18 Play mode indicator

- 1: Appears when a file is played back.
- 📁: Appears when files in one folder are played back continuously.
- ALL: Appears when all the files are played back continuously.
- ↺ 1: Appears when one file is played back repeatedly.
- ↺ 📁: Appears when files in one folder are played back repeatedly.
- ↺ ALL: Appears when all the files are played back repeatedly.

19 Noise cut/Effect indicator

Appears when the noise cut function is effective, or “Effect” is set in the menu.

N-CUT : Noise cut

POP : Pop

ROCK : Rock

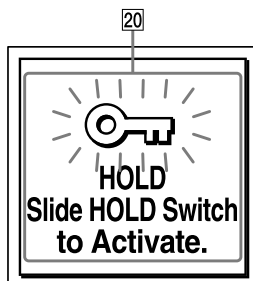
JAZZ : Jazz

BA1 : Bass1

BA2 : Bass2

CUSTOM : Custom

Display in the HOLD status

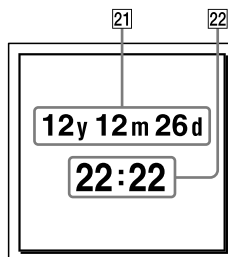


20 HOLD indicator

Appears when the IC recorder is in the HOLD status to prevent unintentional operations.

To release the HOLD status, slide the HOLD•POWER switch towards the center (👉 p. 14).

Display of the current date and time



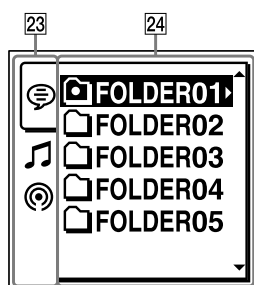
21 Current date display

Displays the current date (year, month, and day) for 3 seconds when you press ■ STOP in the stop mode.
e.g.: 12y12m26d (December 26, 2012)

22 Current time display

Displays the current time (hour and minutes) for 3 seconds when you press ■ STOP in the stop mode.
e.g.: 22:22 (24-Hour time display)/10:22 PM (12-Hour time display)

Display during folder selection



23 Tabs

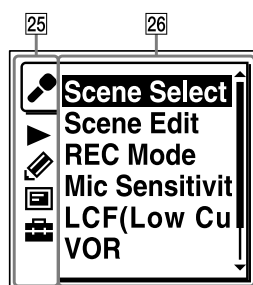
Displays the types (recordable or playback-only) of areas available:

- ☎ (Voice): Recordable area used to manage files recorded with the IC recorder.
- 🎵 (Music): Playback-only area used to manage music files transferred from your computer.
- 🎙 (Podcast): Playback-only area used to manage podcast files transferred from your computer.

24 Folders

Displays the folders contained in the selected tab.

Display during menu operation



25 Menu tabs

Displays the menu tabs:

- 🎙 : Recording
- ▶ : Playback
- ✏ : Edit
- 📷 : Display
- 🔧 : IC recorder settings

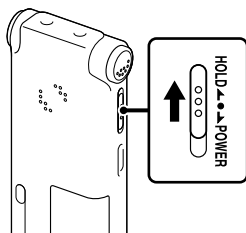
26 Menu items

Displays the menu items of the selected menu tab.

Preventing Unintentional Operations (HOLD)

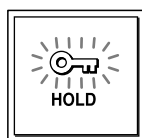
You can disable all the buttons (HOLD) in order to prevent unintentional operations when you carry the IC recorder, etc.

To disable the button operations (HOLD status)

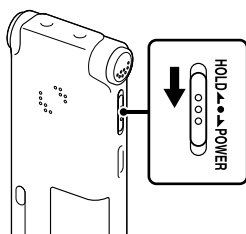


Slide the HOLD•POWER switch in the direction of “HOLD” to disable the buttons while the power is on.

“HOLD” will appear for approximately 3 seconds, indicating that all the button operations are disabled.



To enable the button operations



Slide the HOLD•POWER switch towards the center.

Note

When the HOLD function is activated during recording, all the button operations are disabled. To stop recording, cancel the HOLD function first.



Hint

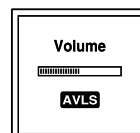
Even if the HOLD function is activated, you can stop the alarm playback by pressing any button. (You cannot stop normal playback.)

Maintaining the Moderate Volume Level (AVLS) (For European models only)

The AVLS (Automatic Volume Limiter System) function allows you to listen to the sound at a moderate volume level when using the headphones. The AVLS function limits the maximum volume to prevent auditory issues or distraction and also to maintain a moderate volume level.

When “AVLS” is set to “ON”

When you try to adjust the volume to a level that exceeds the AVLS-specified level, the “AVLS” indicator lights. You cannot adjust the volume to a level that exceeds the limit.



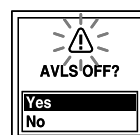
Note

“AVLS” is set to “ON” when you purchase the IC recorder. If you want to turn off the function and play back files at the original volume, use the menu to set “AVLS” to “OFF.”

When “AVLS” is set to “OFF”

To disable the AVLS function, do the following:

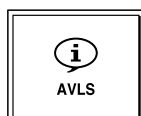
- 1 In the stop or playback mode, select MENU ➔ the ► tab ➔ “AVLS,” and then press ►/ENT.
- 2 Press ▲ or ▼ to select “OFF,” and then press ►/ENT.
The “AVLS OFF?” message is displayed with a beeping sound.
- 3 Press ▲ or ▼ to select “Yes,” and then press ►/ENT.
- 4 Press ■ STOP to exit the menu mode.



To enable the AVLS function:

Select “ON” in the step 2, or select “No” in the step 3.

If you play back files at a volume that exceeds the AVLS-specified level for specified period of time, the following animation will be displayed and “AVLS” in the menu is automatically set to “ON.”



Turning the IC Recorder On

Inserting a battery

Slide and lift the battery compartment lid, and then insert an LR03 (size AAA) alkaline battery (supplied) or an NH-AAA rechargeable battery (not supplied) with correct polarity, and close the lid.



Note

You cannot charge a battery with the IC recorder.

When to replace the battery

The battery indicator on the display shows the battery condition in an animation.

Battery remain indication

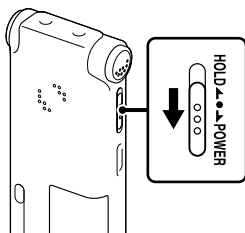
☀️: “Low Battery Level” appears.

Replace the current battery with a new alkaline battery or fully charged rechargeable battery.



🌧️: “Low Battery” appears and the IC recorder will stop operation.

Turning the power on



Slide and hold the HOLD•POWER switch in the direction of “POWER” until the window display appears. The “Accessing...” animation is displayed, and the IC recorder is turned on.

Turning the power off

Slide and hold the HOLD•POWER switch in the direction of the “POWER” until “Power Off” animation is displayed. The IC recorder is turned off.

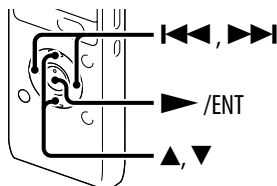
Hint

When the IC recorder is in the stop mode, and you leave the IC recorder without attempting an operation for a certain length of time, the auto power off function will take effect. (The length of time before auto power off is set to “10min” when you purchase the IC recorder.)

Setting the Clock

You need to set the clock to use the alarm function or record the date and time.

Setting the clock after preparing a power source



When you insert a battery for the first time, or when you insert a battery after the IC recorder has been without a battery for more than 1 minute, the “Set Date&Time” animation appears, and then the year section begins to flash in the clock setting display window.

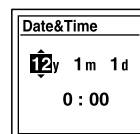
1 Set year, month, day, hour and minute.

Press ▲ or ▼ to set the year (the last two digits of the year), and then press ► /ENT. Repeat this procedure to set month, day, hour, and minute in sequence.

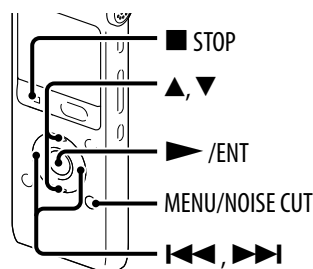
You can move the cursor to the year, month, day, hour and minute by pressing ◀◀ and ▶▶.

When you set the minute and press ► /ENT, the clock reflects the setting.

The stop mode window will be displayed.



Setting the clock using the menu

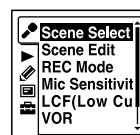


While the IC recorder is in the stop mode, you can set the clock using the menu.

1 Select “Date&Time” in the menu.

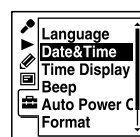
- ① Press **MENU/NOISE CUT** to enter the menu mode.

The menu mode window will be displayed.



- ② Press **◀◀**, and then press **▲** or **▼** to select the **📅** tab, and then press **▶** /ENT.

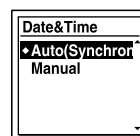
- ③ Press **▲** or **▼** to select “Date&Time,” and then press **▶** /ENT.



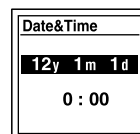
2 Press **▲** or **▼** to select “Auto(Synchronizing)” or “Manual,” and then press **▶** /ENT.

When you select “Auto(Synchronizing),” the clock is automatically adjusted using the clock in the computer connected to the IC recorder and on which the Sound Organizer software is started. For the Sound Organizer software, refer to the supplied Quick Start Guide.

When you select “Manual,” proceed to the next steps.



3 Press **▲** or **▼** to select “12y1m1d,” and then press **▶** /ENT.



4 Set year, month, day, hour and minute.

Press ▲ or ▼ to set the year (the last two digits of the year), and then press ► /ENT. Repeat this procedure to set month, day, hour, and minute in sequence.

You can move the cursor to the year, month, day, hour and minute by pressing ◀◀ and ▶▶.

When you set the minute and press ► /ENT, the clock reflects the setting.

5 Press ■ STOP to exit the menu mode.

Notes

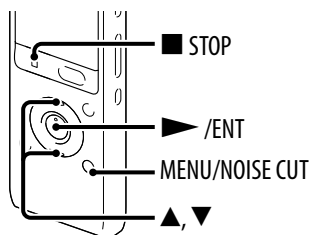
- If there is no operation for 1 minute or longer between steps, the clock setting is canceled and the window will return to the display of the stop mode.
- The time is displayed either in 12-Hour with “AM” or “PM,” or in 24-Hour, depending on the “Time Display” setting in the menu. The default setting differs depending on the country or region you purchased the IC recorder.

To display the current date and time

While the IC recorder is in the stop mode, press ■ STOP to display the current date and time for about 3 seconds.

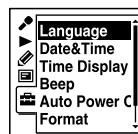
12y 12m 26d
22:22

Setting the Language to Be Used in the Display Window



You can select the language to be used for messages, menus, folder names, file names, etc.

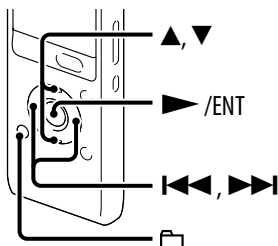
- 1 Press MENU/NOISE CUT. Select the  tab  "Language," and then press  /ENT.



- 2 Press  or  to select the language that you want to use, and then press  /ENT.
- 3 Press  STOP to exit the menu mode.

Selecting a Folder, File, and Tab

Selecting a folder and a file



You can select a folder and a file for recording, playing or editing as follows:

1 Press .

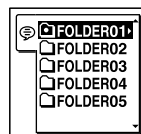
The folder selection window is displayed.

2 Select a folder.

Press ▲ or ▼ to select the desired folder, and then press ► /ENT.

Hint

To display the files contained in the selected folder, press ▲ or ▼ to select the desired folder, and then press ►►.

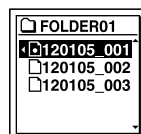


When you purchase the IC recorder, there are 5 folders already available (FOLDER01-05).

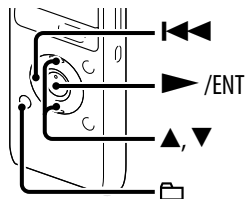
3 Select a file.

When the file selection window is displayed, press ▲ or ▼ to select the desired file, and then press ► /ENT.

When the stop mode window is displayed, you can switch files by pressing ◀◀ and ▶▶.



Selecting a tab



The recordable area and the playback-only area of folders stored on the IC recorder are managed separately, and are displayed with tabs. To select a folder, you can move to the desired area by selecting a tab as follows:

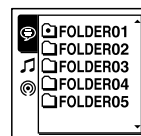
1 Press .

The folder selection window is displayed.

2 Press and then press or to select the , , or tab.

Only the tab will be displayed when you purchase the IC recorder.

The tab and the tab will be displayed when you transfer files from your computer (p. 83).

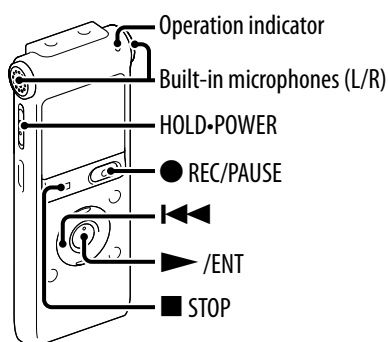


3 Press the /ENT.

The folders contained in the selected tab are displayed.

4 Select a folder and a file (p. 22).

Basic Recording



The following are the basic recording procedures using the specified microphone sensitivity and recording mode.

Note

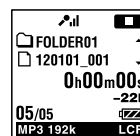
Noise may be recorded if an object, such as your finger, etc., accidentally rubs or scratches the IC recorder during recording.

Hint

Before you start recording, we recommend you make a trial recording first, or monitor the recording (☞ p. 25).

- 1 Slide the **HOLD•POWER** switch in the direction of **"POWER"** to turn on the IC recorder (☞ p. 17), or towards the center to release the IC recorder from the **HOLD** status (☞ p. 14).

The stop mode window appears.



- 2 Select the desired folder (☞ p.22).

- 3 Place the IC recorder so that the built-in microphones face the direction of the source to be recorded.

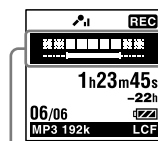


4 Press ● REC/PAUSE in the stop mode.

The operation indicator lights in red.

You do not need to press and hold ● REC/PAUSE while recording.

The new file will be automatically recorded as the last file in the current folder.



Recording level guide

About the recording level guide

During recording, the recording level guide is displayed.

The upper meter shows the current input level during recording. The white bar in the lower meter shows the optimum input level for recording.

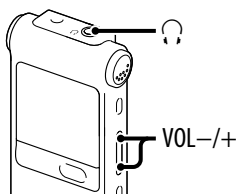


Please adjust the orientation of the built-in microphones, the distance from the sound source, the microphone sensitivity, or the scene select setting so that the upper input level fits within the lower optimum range, as illustrated above.

Hint

If the white portion of the input level meter is short, we recommend that you place the IC recorder nearer to the sound source or set the microphone sensitivity higher.

Monitoring the recording



If you connect the supplied stereo headphones to the  (headphone) jack, you can monitor the recording. You can adjust the monitoring volume by pressing VOL -/+, but the recording level is fixed.

Stopping the recording

1 Press **■ STOP**.

The “Accessing...” animation appears and the IC recorder stops at the beginning of the current recording file.

Note while accessing

The IC recorder is recording data and storing it on the memory when the “Accessing...” animation appears on the display. While the IC recorder is accessing data, do not remove the battery or connect or disconnect the USB AC adaptor (not supplied). Doing so may damage the data.

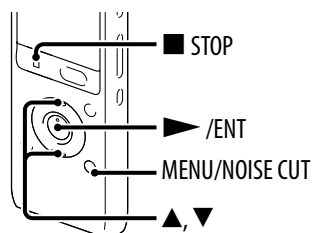
Other operations

To	Do this
pause recording*	Press ● REC/PAUSE . During recording pause, the operation indicator flashes in red and “ ■ ” begins to flash in the display window.
release pause and resume recording	Press ● REC/PAUSE again. Recording resumes from that point. (To stop recording after pausing recording, press ■ STOP .)
review the current recording instantly	Press ▶/ENT . Recording stops and playback starts from the beginning of the file just recorded.
review during recording	Press and hold ◀◀ during recording or recording pause. Recording stops and you can search backwards while listening to fast playback sound. After you release ◀◀ , playback starts from that point.

* 1 hour after you pause recording, recording pause is automatically released and the IC recorder enters the stop mode.

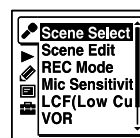
Changing the Recording Settings

Selecting a recording scene for each situation



According to various recording scene, you can change the items for recording, such as REC Mode (🔧 p. 67), Mic Sensitivity (🔧 p. 67), etc., to the recommended settings in bulk. You can change the settings for each item.

- 1 In the stop mode, press MENU/NOISE CUT. Select the 🗨️ tab ➡️ "Scene Select," and then press ➡️ /ENT.



- 2 Press ▲ or ▼ to select a scene you want, and then press ➡️ /ENT.
- 3 Press ■ STOP to exit the menu mode.

Scenes	Descriptions
🗨️ (Meeting)	To record in a variety of situations, such as recording in a spacious conference room.
💬 (Voice Notes)	To record dictation with a microphone in front of your mouth.
🗣️ (Interview)	To record human voice at a distance of 1 to 2 meters (40 to 80 in.).
🎓 (Lecture)	To record a wide range of sound, such as a lecture in a classroom or a chorus lesson.
📺 (Audio IN)	To record from external equipment, such as a television, portable CD/MD player or a tape recorder, connected to the IC recorder via an audio output connector (stereo mini-jack) with an audio connecting cable for dubbing.
📌 (My Scene)	Use to keep your favorite settings.

Tips for better recording

There are ways of making better recordings other than using scene selection.

Recording at a meeting

By placing the IC recorder on a handkerchief, etc. substituting for a stand, you can record with clear, low-noise sound, without vibration noise from the desk.



Recording a voice note

By placing the IC recorder close to one side of your mouth, you can prevent breathing on the built-in microphones, and record with clear sound.



Recording an interview

Place the IC recorder so that the built-in microphones face the interviewee.



Recording a music performance

By attaching a tripod (not supplied) or placing the recorder on a stand or table, you can adjust the angle of the IC recorder and the built-in microphones more precisely.

When recording a chorus or piano performance, for example, place the IC recorder on a table approximately 2 to 3 meters (80 to 120 in.) from the performer(s). Set up the IC recorder with the display window facing up, and with the built-in microphones pointing towards the sound source.



Changing the Scene Select settings

- 1 In the stop mode, press MENU/NOISE CUT. Select the  tab  "Scene Edit," and then press /ENT.



- 2 Press  or  to select the scene you want to change the settings, and then press /ENT.
- 3 Press  or  to select "Edit from Current Setting" or "Edit," and then press /ENT.
- 4 Press  or  to select the item you want to change, and then press /ENT.
- 5 Press  or  to select a setting item, and then press /ENT.
For details on the menu items and settings, see "Making Settings for the Menu." ( p. 67 – 68)
- 6 Press  or  to select "Edit Complete," and then press /ENT.
- 7 Press  STOP to exit the menu mode.

Changing the Scene Select setting to the default values

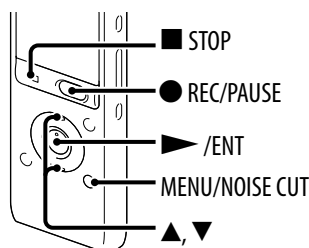
- 1 In the stop mode, press MENU/NOISE CUT. Select the  tab → “Scene Edit,” and then press /ENT.
- 2 Press  or  to select the scene you want to change the settings to the default values, and then press /ENT.
- 3 Select “Set Default Value,” and then press /ENT.
“Default Value?” will be displayed.
- 4 Press  or  to select “Execute,” and then press /ENT.
The menu item settings of the selected scene will be set to the default values.
- 5 Press  STOP to exit the menu mode.

Default settings

For details on the menu items and settings, see pages 67 through 68.

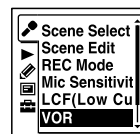
	 (Meeting)	 (Voice Notes)	 (Interview)	 (Lecture)	 (Audio IN)	 (My Scene)
REC Mode	MP3 192kbps	MP3 128kbps	MP3 192kbps	MP3 192kbps	MP3 192kbps	MP3 192kbps
Mic Sensitivity	 Medium	 Low	 Medium	 Medium	 Low	 Medium
LCF(Low Cut)	ON	ON	ON	OFF	OFF	OFF
VOR	OFF	OFF	OFF	OFF	OFF	OFF
SYNC REC	OFF	OFF	OFF	OFF	ON	OFF
Select Input	MIC IN	MIC IN	MIC IN	MIC IN	Audio IN	MIC IN

Starting to Record Automatically in Response to Sound – the VOR Function



You can set the VOR (Voice Operated Recording) function to “ON,” to make the IC recorder start recording when the IC recorder detects sound that exceeds a specified level, and pause when sound falls to a level lower than a specified level.

- 1 In the stop or recording mode, press **MENU/NOISE CUT**. Select the  tab → “VOR,” and then press **▶/ENT**.



- 2 Press **▲** or **▼** to select “ON,” and then press **▶/ENT**.
“VOR” is set to “OFF” when you purchase the IC recorder.

- 3 Press **■ STOP** to exit the menu mode.

- 4 Press **● REC/PAUSE**.

“VOR ” appears in the display window.

When the IC recorder detects sound that falls below a specified level, the “VOR ” flashes, and the VOR recording pauses.

When the IC recorder detects sound that exceeds a specified level during the VOR recording pause, the VOR recording starts again.

To cancel the VOR function

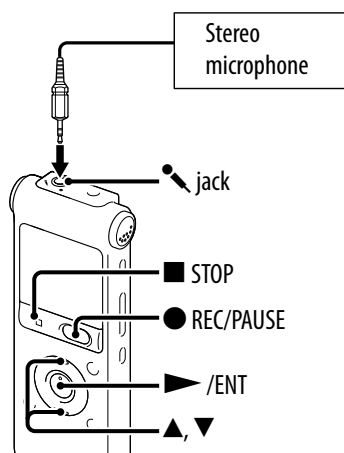
Set “VOR” to “OFF” in step 2.

Notes

- The VOR function is affected by the sound around you. Set “Mic Sensitivity” in the menu according to the recording conditions. If recording is not satisfactory after you have changed the “Mic Sensitivity” setting, or for an important recording, set “VOR” to “OFF” in the menu.
- During synchronized recording ( p. 33), the VOR function does not work.

Recording via Other Devices

Recording with an external microphone



- 1 In the stop mode, connect an external microphone to the jack.

“Select Input” appears in the display window.

If “Select Input” is not displayed, set it in the menu (p. 68).

- 2 Press or to select “MIC IN,” and then press /ENT.

- 3 Press STOP to exit the menu mode.

- 4 Press REC/PAUSE to start recording.

The built-in microphones are automatically cut off.

If the input level is not strong enough, adjust the “Mic Sensitivity” setting on the IC recorder.

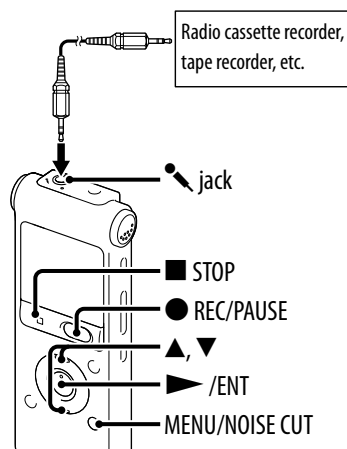
When a plug in power type microphone is connected, power is automatically supplied to the microphone from the IC recorder.

To record sound from a telephone or a cell phone

You can use a headphone-type electret condenser microphone to record sound from a telephone or a cell phone.

For details on how to make the connection, refer to the operating instructions supplied with the microphone.

Recording from other equipment



You can make music files without using the computer by recording sound/music from other equipment such as a radio cassette recorder, a tape recorder, etc. connected to the IC recorder.

When you select “Audio IN” from the “Scene Select” menu, the settings suitable for recording from other equipment are already selected (☞ p. 27).

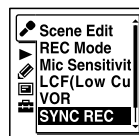
Hint

If the input level is not strong enough, connect the headphone jack (minijack, stereo) of other equipment to the jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder while checking the recording level guide.

To record using the synchronized recording function

The IC recorder pauses when no sound is detected for more than 2 seconds. The IC recorder starts recording again as a new file when sound is detected.

- 1 Press **MENU/NOISE CUT**. Select the tab ➡ “**SYNC REC**,” and then press **▶ /ENT**.



- 2 Press **▲** or **▼** to select “**ON**,” and then press **▶ /ENT**.
- 3 Press **■ STOP** to exit the menu mode.

4 In the stop mode, connect other equipment to the IC recorder.

Connect the audio output connector (stereo mini-jack) of other equipment to the  jack of the IC recorder using an audio connecting cable.

“Select Input” appears in the display window.

If “Select Input” is not displayed, set it in the menu ( p. 68).

5 Press ▲ or ▼ to select “Audio IN,” and then press ►/ENT.

6 Press ● REC/PAUSE to start recording.

“SYNC  ” flashes and the IC recorder enters the recording pause mode.

7 Start playback on the piece of equipment connected to the IC recorder.

“SYNC  ” appears on the display and synchronized recording starts.

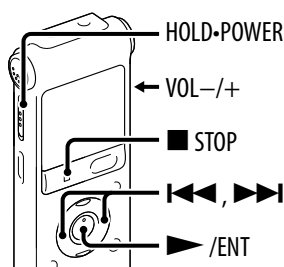
When no sound is detected for more than 2 seconds, “Dividing...” appears and then “SYNC  ” begins to flash. The synchronized recording pauses.

The IC recorder starts recording again as a new file when sound is detected.

To record without using the synchronized recording function

Select “OFF” in step ② of “To record using the synchronized recording function” ( p. 33), and then proceed with steps ③ through ⑦. When you press ● REC/PAUSE in step ⑥, the built-in microphones are automatically cut off and the sound from the connected piece of equipment is recorded.

Basic Playback



- 1 Slide the **HOLD•POWER** switch in the direction of “**POWER**” to turn on the IC recorder (☞ p. 17), or towards the center to release the IC recorder from the **HOLD** status (☞ p. 14).

The stop mode window appears.

- 2 Select the desired file to be played back (☞ p.22).

If you do not select a file, the file just recorded will be played back.

- 3 Press **▶/ENT**.

Playback starts, and the operation indicator will light in green.

- 4 Press **VOL -/+** to adjust the volume.

Note for the customers in Europe

When “AVLS” is set to “ON” in the menu and the “AVLS” indicator is displayed, you cannot adjust the volume to a level that exceeds the AVLS-specified level. If you want to turn off the function and play back files at the original volume, use the menu to set “AVLS” to “OFF”

Stopping playback

- 1 Press **■ STOP**.

Other operations

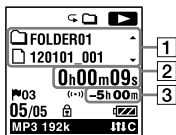
To	Do this
stop at the current position (Playback Pause function)	Press ►/ENT. To resume playback from that point, press ►/ENT again.
go back to the beginning of the current file	Press ◀◀ once.* ¹ * ²
go back to previous files	Press ◀◀ repeatedly. (During the stop mode, keep the button pressed to go back the files continuously.* ³)
skip to the next file	Press ▶▶ once.* ¹ * ²
skip to the succeeding files	Press ▶▶ repeatedly. (During the stop mode, keep the button pressed to skip the files continuously.* ³)

*¹When a track mark is set, the IC recorder goes backward or forward to the track mark before or after the current point (⌚ p. 55).

*²These operations are for when “Easy Search” is set to “OFF” (⌚ p. 45).

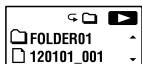
*³In the continuous searching mode, the IC recorder does not locate track marks.

Display when playing back a file



1 File information

Press ▲ or ▼ to check the file information during playback.
A file recorded using the IC recorder is displayed as follows.



□ : Folder name: FOLDER01-FOLDER05

□ : File name: Date_file number (e.g., 120101_001)



Ⓜ : Artist name (e.g., My Recording)

♪ : Title name: Date_file number (e.g., 120101_001)

2 Counter information

You can select the display mode in the menu (Ⓜ p. 73).

Elapsed time: The elapsed playback time of one file

Remaining time: The remaining playback time of one file

Recording date: Date recorded

Recording time: Time recorded

3 Remaining recording time

Displays the remaining recording time in hours, minutes, and seconds.

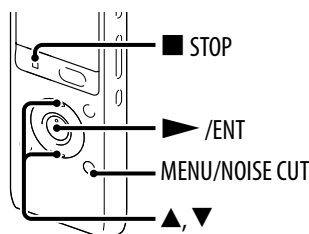
If there is 10 hours or more time remaining, the time is displayed in hours.

If there is 10 minutes or more and less than 10 hours time remaining, the time is displayed in hours and minutes.

If there is less than 10 minutes time remaining, the time is displayed in minutes and seconds.

Changing the Playback Settings

Reducing noise in the playback sound and making the human voice clearer – the noise cut function

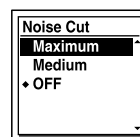


When the noise cut function is effective in the playback mode, ambient noise other than the human voice is reduced. A file is played back with clear sound quality because the noise of all frequency bands including a human voice is reduced.

To set the noise cut level

- 1 In the stop or playback mode, press and hold **MENU/NOISE CUT** for approximately 2 seconds or longer.

The “Noise Cut” setting window will be displayed.



- 2 Press **▲** or **▼** to select “Maximum” or “Medium,” and then press **▶** / **ENT**.
- 3 Press **■** **STOP** to exit the menu mode.

To cancel the noise cut function

Set “Noise Cut” to “OFF” in step 2.

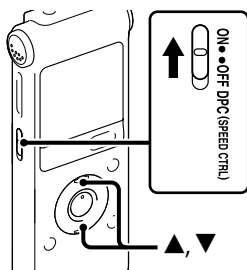
To set the noise cut function in the menu

Select and set “Noise Cut” from the **▶** tab of the menu.

Note

When playing back a music file in good sound quality, make sure to set “Noise Cut” to “OFF.”

Adjusting the playback speed – the DPC (Digital Pitch Control) function



You can adjust the playback speed in a range from 0.50 times to 2.00 times. The file is played back in natural tones by means of a digital processing function.

- 1 Slide the DPC(SPEED CTRL) switch to “ON.”**
- 2 During playback, press ▲ or ▼ to adjust the playback speed.**

The speed decreases by 0.05 times (from $\times 0.50$ to $\times 1.00$).

The speed increases by 0.10 times (from $\times 1.00$ to $\times 2.00$).

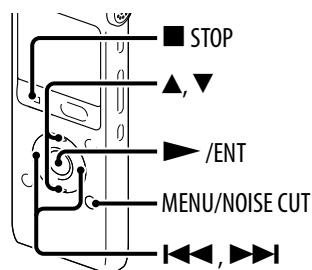
When you press and hold each button, you can change the speed continuously.

The playback speed is set to “ $\times 0.70$ ” when you purchase the IC recorder.

To resume normal playback speed

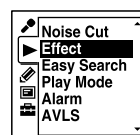
Slide the DPC(SPEED CTRL) switch to “OFF.”

Selecting the sound effect



You can set the effect you want for the playback in the menu.

- 1 In the stop or playback mode, press MENU/NOISE CUT. Select the ► tab ➔ "Effect," and then press ►/ENT.**



- 2 Press ▲ or ▼ to select effect you want for the playback, and then press ►/ENT.**

- 3 Press ■ STOP to exit the menu mode.**

Option items	Description
Pop	Stresses middle ranges, ideal for vocals.
Rock	Emphasizes high and low ranges for a powerful sound.
Jazz	Emphasizes high ranges for lively sound.
Bass1	Emphasizes the bass sound.
Bass2	Emphasizes the bass sound even more.
Custom	You can design your own custom sound level for 5 bands.
OFF	Disables the effect function.

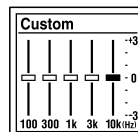
To set your favorite sound level

- 1 Set "Effect" to "Custom" in step 2 on page 40 , and then press ►/ENT.

The custom setting window will be displayed.

- 2 When you adjust the sound level for the 100 Hz, 300 Hz, 1 kHz, 3 kHz, and 10 kHz bands, press ◀◀ or ▶▶ to move to the band to the left or right, and then press ▲ or ▼ .

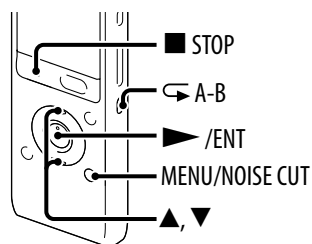
The setting can be adjusted in 7 steps from -3 to +3.



- 3 Press ►/ENT.

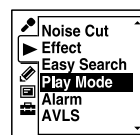
- 4 Press ■ STOP to exit the menu mode.

Selecting the play mode



You can select the play mode in the menu.

- 1 In the stop or playback mode, press MENU/NOISE CUT. Select the ► tab ➔ "Play Mode," and then press ►/ENT.



- 2 Press ▲ or ▼ to select "1," "📁," "ALL," "🔄 1," "🔄 📁," or "🔄 ALL," and then press ►/ENT.
- 3 Press ■ STOP to exit the menu mode.

Option items	Description/reference page
1	A file is played back.
📁	Files in one folder are played back continuously.
ALL	All the files are played back continuously.
🔄 1	One file is played back repeatedly.
🔄 📁	Files in one folder are played back repeatedly.
🔄 ALL	All the files are played back repeatedly.

To play back a specified section repeatedly – A-B repeat

- 1 During playback, press ⇐ A-B to specify the starting point A.**
“A-B B?” is displayed.
- 2 Press ⇐ A-B again to specify the finishing point B.**
“⇐ A-B” is displayed and the specified section is played back repeatedly.

To resume normal playback:

Press ►/ENT.

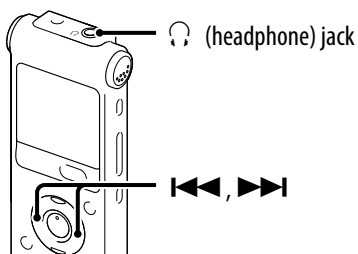
To stop A-B repeat playback:

Press ■ STOP.

To change the segment specified for A-B repeat playback:

During A-B repeat playback, press ⇐ A-B again to specify a new starting point A. Then specify a new finishing point B, as in step 2.

Convenient Playback Methods



Listening with better sound quality

- To listen with the headphones:
Connect the supplied stereo headphones to the ♪ (headphone) jack. The built-in speaker will be automatically disconnected.
- To listen from an external speaker:
Connect an active or passive speaker to the ♪ (headphone) jack.

Searching forward/backward during playback – Cue/Review

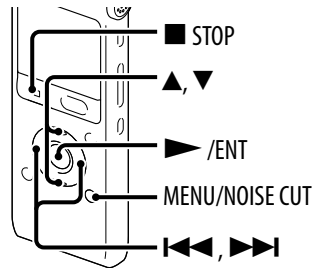
- To search forward (Cue):
Press and hold ►► during playback and release it at the point you wish to resume playback.
- To search backward (Review):
Press and hold ◀◀ during playback and release it at the point you wish to resume playback.

The IC recorder searches at slow speed with playback sound. This is useful to check one word forward or back. Then, if you press and hold the button, the IC recorder starts to search at higher speed.

💡 When files are played back or searched to the end of the last file

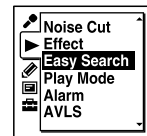
- When you play back or fast play back to the end of the last file, "FILE END" lights up for approx. 5 seconds.
- When "FILE END" and the operation indicator go off, the IC recorder will stop at the beginning of the last file.
- If you press and hold ◀◀ while "FILE END" is lit, the files are played back rapidly, and normal playback will start at the point you release the button.

Quickly locating the point you wish to start playback – Easy search function



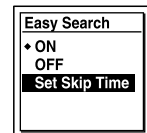
When “Easy Search” is set to “ON” in the menu, you can go back for the specified reverse skip time by pressing ◀◀ once, and can go forward for the specified forward skip time by pressing ▶▶ once during playback. This function is useful for locating a specific point in a long recording such as one made at a meeting.

- 1 In the stop or playback mode, press MENU/NOISE CUT. Select the ► tab ➔ “Easy Search,” and then press ► /ENT.

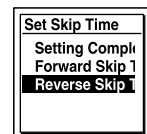


- 2 To go forward or backward for the specified skip time, press ▲ or ▼ to select “ON,” and then press ► /ENT. Skip to step 5.

To change the time to go forward or backward when searching, press ▲ or ▼ to select “Set Skip Time,” and then press ► /ENT.



- 3 Press ▲ or ▼ to select “Forward Skip Time” or “Reverse Skip Time,” and then press ► /ENT.



-
- 4 Press ▲ or ▼ to select the skip time, and then press ►/ENT.**

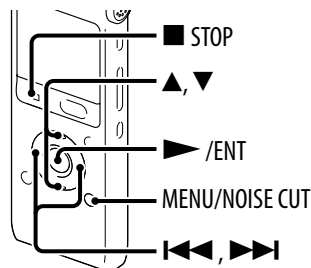
**Hint**

To adjust both the forward and backward skip times, repeat steps **3** and **4**.

Forward Skip Time	5sec, 10sec, 30sec, 1min, 5min, or 10min
Reverse Skip Time	1sec, 3sec, 5sec, 10sec, 30sec, 1min, 5min, or 10min

-
- 5 Press ■ STOP to exit the menu mode.**
-

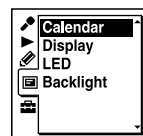
Selecting a Recording Date from the Calendar and Playing Back



You can play back a file recorded using the IC recorder by searching for it from the calendar.

- 1 In the stop mode, press MENU/NOISE CUT. Select the  tab ➔ "Calendar," and then press ►/ENT.**

The calendar appears after the "Accessing..." animation, and the current date will be selected.



- 2 Press <<< or >>> to select a date, and then press ►/ENT.**

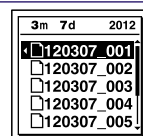
The underline is displayed at the date where a recorded file exists.



You can move to the previous week or the following week of the date by pressing ▲ or ▼. When you press and hold each button, you can move continuously through the dates or the weeks.

- 3 Press ▲ or ▼ to select a file, and then press ►/ENT.**

A confirmation message appears, and the file you selected will be played back for confirmation.



- 4 Press ▲ or ▼ to select "Enter," and then press ►/ENT.**

The file will be played back.

- 5 Press ■ STOP to stop playback.**

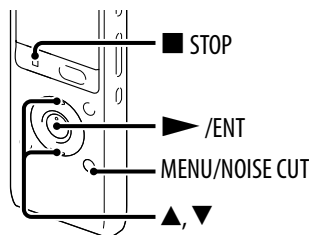
To cancel the selection of a recording date from the calendar and the accompanying playback

Press ■ STOP before step ④.

Notes

- You need to set the clock in advance to select a recording date from the calendar and play back a file (🔍 p. 18).
- If you specify a date where a recorded file does not exist, “No File” will be displayed. Select a date where a recorded file exists.
- You can search for and play back only the files in the recordable folder that contains files recorded with the IC recorder. For details, see “Structure of folders and files” (🔍 p. 79).

Playing Back a File at a Desired Time with an Alarm



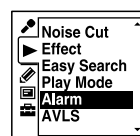
You can sound an alarm and start playback of a selected file at a desired time. You can have a file played back on a specified date, once every week, or at the same time every day. You can set an alarm for a file.

1 Select the file you want to play back with an alarm.

2 Enter the alarm setting mode.

- ① In the stop mode, press MENU/NOISE CUT. Select the ► tab ➡ "Alarm," and then press ►/ENT.

- ② Press ▲ or ▼ to select "ON," and then press ►/ENT.



3 Set the alarm date and time.

- ① Press ▲ or ▼ to select "Date," a day of the week, or "Daily," and then press ►/ENT.

② When you select "Date":

Set the year, month, day, hour, and minute in sequence, as described in "Setting the Clock" (📖 p. 18).

When you select a day of the week or "Daily":

Press ▲ or ▼ to set the hour, and then press ►/ENT.

Press ▲ or ▼ to set the minute, and then press ►/ENT.

4 Press ▲ or ▼ to select a favorite alarm pattern, and then press ►/ENT.

"Executing..." is displayed.



5 Press ■ STOP to exit the menu mode.

The setting process is finished and “(●)” (alarm indicator) appears in the display window.

To change the alarm setting

Select the file you want to change its alarm setting, and then follow steps ② through ⑤.

To cancel the alarm setting

Follow steps ① and ②. In step ②-② select “OFF” and press ►/ENT. The alarm will be canceled and the alarm indicator will disappear from the display window.

When the set date and time comes

At the set time, the IC recorder is automatically turned on and “ALARM” is displayed in the display window. Then the alarm and the selected file will be played back using the selected alarm pattern.

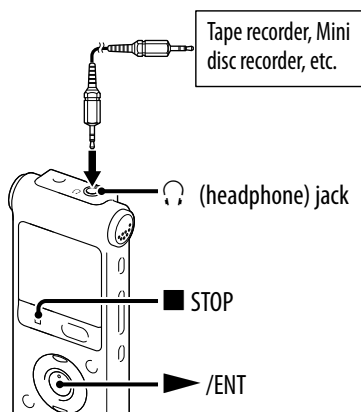
When the playback ends, the IC recorder will stop automatically. (When the alarm pattern is set to “Beep&Play” or “Play,” the IC recorder will stop at the beginning of the selected file.)

To stop the alarm playback

Press any button other than VOL -/+ while the alarm sound is heard. If the HOLD function is activated, you can stop the alarm playback by pressing any button.

Playback via Other Devices

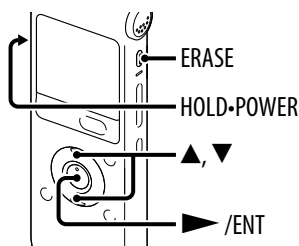
Recording with other equipment



You can record the sound of the IC recorder with other equipment. Before you start recording, we recommend you make a trial recording first.

- 1 Connect the (headphone) jack of the IC recorder to the external input terminal of other equipment using an audio connecting cable.**
- 2 Press ►/ENT to start playback and at the same time set the connected equipment to the recording mode.**
A file from the IC recorder will be recorded on the equipment connected.
- 3 Press ■ STOP on the IC recorder and the connected equipment at the same time to stop recording.**

Erasing a File



You can select a file and erase it as follows.

Note

Once a file has been erased, you cannot retrieve it.

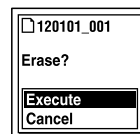
- 1 **Slide the HOLD-POWER switch in the direction of “POWER” to turn on the IC recorder** (🔧 p. 17), **or towards the center to release the IC recorder from the HOLD status** (🔧 p. 14).

The stop mode window appears.

- 2 **In the stop or playback mode, select the file you want to erase** (🔧 p.22).

- 3 **Press ERASE.**

“Erase?” is displayed and the specified file is played back for confirmation.



- 4 **Press ▲ or ▼ to select “Execute.”**

- 5 **Press ►/ENT.**

The “Erasing...” animation appears in the display window and the selected file will be erased.

When a file is erased, the remaining files will advance so that there will be no space between files.

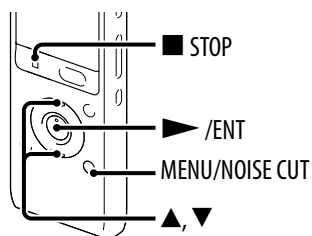
To cancel erasing

Select “Cancel” in step 4, and then press ►/ENT.

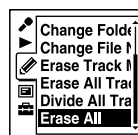
To erase a part of a file

Divide the file into two files first (🔧 p. 58), and then proceed with steps 2 through 5.

Erasing All Files in a Folder



- 1 In the stop mode, select the folder containing the files you want to erase (➡ p.22).
- 2 Press MENU/NOISE CUT. Select the  tab ➡ “Erase All,” and then press /ENT.
“Erase All Files in the Folder?” will be displayed.
- 3 Press  or  to select “Execute,” and then press /ENT.
The “Erasing...” animation appears in the display window and all files in the selected folder will be erased.
- 4 Press  STOP to exit the menu mode.

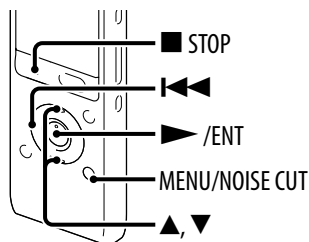


To cancel erasing

Select “Cancel” in step 3, and then press /ENT.

Arranging Files in a Folder

Moving a file to a different folder



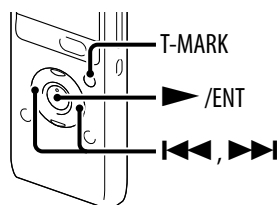
- 1 Select the file you want to move.
- 2 In the stop mode, press MENU/NOISE CUT. Select the  tab → "Move File," and then press ► /ENT.
 
- 3 Press ◀◀, press ▲ or ▼ to select the  tab or the  tab, and then press ► /ENT.
- 4 Press ▲ or ▼ to select the folder that you want to move the file into, and then press ► /ENT.
 "Moving File..." animation is displayed and the file is moved to the last position in the destination folder.
 When you move a file to another folder, the original file in the previous folder will be erased.
 
- 5 Press ■ STOP to exit the menu mode.

To cancel moving the file

Press ■ STOP before step 4.

Using a Track Mark

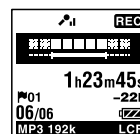
Adding a track mark



You can add a track mark at a point at which you would like to divide a file later or locate during playback. You can add a maximum of 98 track marks to each file.

During recording, playing back, or recording pausing, press T-MARK at the position you want to add a track mark.

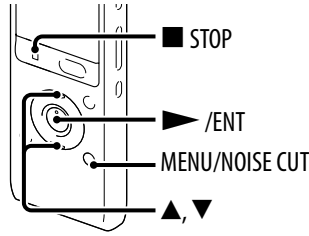
The  (Track mark) indicator flashes three times, and a track mark is added.



Locating a track mark and starting playback at the track mark

Press  or  in the stop mode. When the  (Track mark) indicator flashes once, press /ENT.

Erasing a track mark



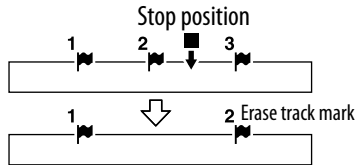
1 Stop at a position after the track mark you would like to erase.

2 Press MENU/NOISE CUT. Select the  tab ➡ “Erase Track Mark,” and then press  /ENT.
“Erase Track Mark?” will be displayed.



3 Press  or  to select “Execute,” and then press  /ENT.

The “Erasing...” animation appears in the display window and the selected track mark will be erased.



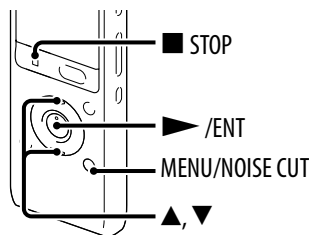
The track mark just before the stop position will be erased.

4 Press  STOP to exit the menu mode.

To cancel erasing

Select “Cancel” in step **3**, and then press  /ENT.

Erasing all the track marks in the selected file at one time



1 Select a file from which you want to erase the track marks.

2 Press MENU/NOISE CUT. Select the  tab ➡ “Erase All Track Marks,” and then press  /ENT.
“Erase All Track Marks?” will be displayed.



3 Press  or  to select “Execute,” and then press  /ENT.

The “Erasing...” animation appears in the display window and all the track marks will be erased at one time.

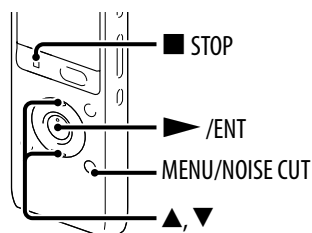
4 Press  STOP to exit the menu mode.

To cancel erasing

Select “Cancel” in step **3**, and then press  /ENT.

Dividing a File

Dividing a file at the current position

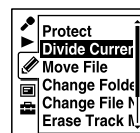


You can divide a file in the stop mode, so that the file is divided into two parts and new file numbers are added to the divided file names. By dividing a file, you can easily find the point from which you want to play back when you make a long recording such as at a meeting. You can divide a file until the total number of files in the folder reaches the maximum number allowed.

1 Stop the file at the position where you want to divide a file.

2 Press MENU/NOISE CUT. Select the  tab ➡ “Divide Current Position,” and then press /ENT.

“Divide?” will be displayed.



3 Press  or  to select “Execute,” and then press /ENT.

The “Dividing...” animation appears, and the divided files will be suffixed with a sequential number (“_1” for the original file, and “_2” for the new file).

File 1	File 2		File 3
	  A file is divided.		
File 1	File 2_1	File 2_2	File 3

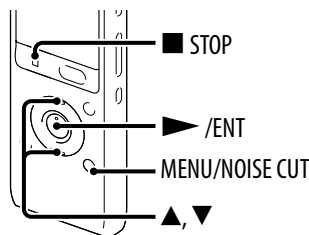
A suffix made up of a sequential number is added to a file name of the divided files.

4 Press  STOP to exit the menu mode.

To cancel dividing

Select “Cancel” in step **3**, and then press /ENT.

Dividing a file at all the track mark positions



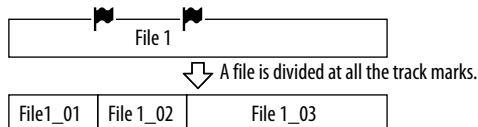
- 1 Select the file you want to divide.
- 2 In the stop mode, press MENU/NOISE CUT. Select the  tab → "Divide All Track Marks," and then press /ENT.

"Divide All Track Marks?" will be displayed.



- 3 Press  or  to select "Execute," and then press /ENT.

The "Dividing..." animation appears, and the file is divided at all the track mark positions. All the existing track marks in the files will be erased. A suffix made up of a sequential number is added each of the divided files.



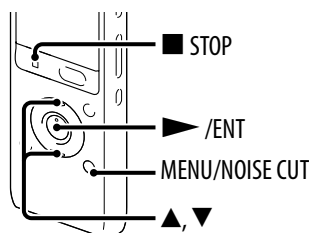
- 4 Press  STOP to exit the menu mode.

To cancel dividing

Select "Cancel" in step ③, and then press /ENT.

Renaming a Folder and a File

Changing a folder name

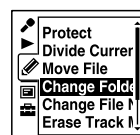


You can change a name of a folder used to store files recorded with the IC recorder.

You can choose a new folder name from the templates.

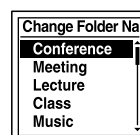
1 Select the folder which you want to rename from the tab of the folder list.

2 In the stop mode, press MENU/NOISE CUT. Select the tab ➔ "Change Folder Name," and then press /ENT.



3 Press or to select a favorite folder name, and then press /ENT.

You can choose a new folder name from the templates. "Executing..." appears in the display window and the folder name will be changed.

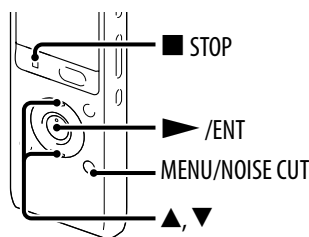


4 Press STOP to exit the menu mode.

Hints

- When you specify a folder name that already exists, a suffix made up of a sequential number (2 to 10) is added to the name of the new folder.
- When you choose "FOLDER" from the templates, a suffix made up of a sequential number (01 to 10) is added to each of the folder names.

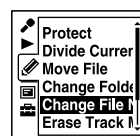
Changing a file name



You can rename a file by prefixing characters from a desired template to the file name. A file in the recordable area, or in a folder on the  tab, can be renamed. You can choose characters to be added from the templates.

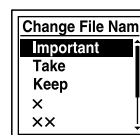
- 1 **Select the file which you want to rename from the  tab of the folder list.**

- 2 **In the stop mode, press MENU/NOISE CUT. Select the  tab ➔ “Change File Name,” and then press  /ENT.**



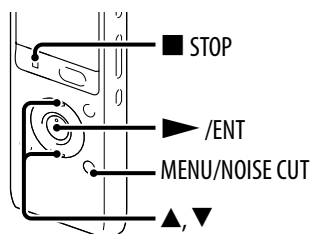
- 3 **Press  or  to select the desired characters to be prefixed to the file name, and then press  /ENT.**

You can choose characters from the templates.
 “Executing...” appears in the display window and the selected characters are added to the file name separated from it by an underbar (_).
 (e.g., If “A” is added to the file 12215_001.mp3:
 A_12215_001.mp3)



- 4 **Press  STOP to exit the menu mode.**

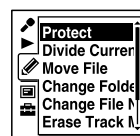
Protecting a File



To prevent a file from being accidentally erased or edited, you can protect an important file. A protected file is marked with the  (protect) indicator and is regarded as a read-only file you cannot erase or edit.

- 1 Display the file which you want to protect from the  tab or the  tab.

- 2 In the stop mode, press MENU/NOISE CUT. Select the  tab ➔ “Protect,” and then press  /ENT.
“Set Protection?” will be displayed.



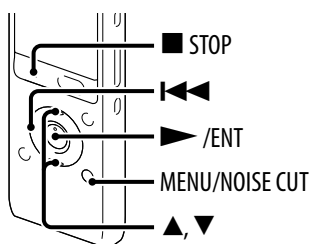
- 3 Press  or  to select “Execute,” and then press  /ENT.
The file is protected. A protected file is marked with the  (protect) indicator.

- 4 Press  STOP to exit the menu mode.

To release protection

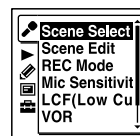
Select the protected file, and then proceed with steps 2 through 4. In this case, “Erase Protection?” will be displayed in step 2.

Making Settings for the Menu



- 1 Press **MENU/NOISE CUT** to enter the menu mode.

The menu mode window will be displayed.



- 2 Press **◀◀**, press **▲** or **▼** to select the **🔍**, **▶**, **🔧**, **📄**, or **🏠** tab, and then press **▶/ENT**.
- 3 Press **▲** or **▼** to select the menu item for which you want to make setting, and then press **▶/ENT**.
- 4 Press **▲** or **▼** to select the setting that you want to set, and then press **▶/ENT**.
- 5 Press **■ STOP** to exit the menu mode.

Note

If you do not press any button for 60 seconds, the menu mode is automatically canceled and the window will return to the normal display.

To return to the previous window

Press **◀◀** during menu mode.

To exit the menu mode

Press **■ STOP** or **MENU/NOISE CUT**.

Menu Settings

Tabs	Menu items	Operation mode (○ : the setting can be made/ — : the setting cannot be made)		
		Stop mode	Playback mode	Recording mode
🔊 (Recording)	Scene Select	○	—	—
	Scene Edit	○	—	—
	REC Mode	○	—	—
	Mic Sensitivity	○	—	○
	LCF(Low Cut)	○	—	○
	VOR	○	—	○
	SYNC REC	○	—	—
	Select Input	○	—	—
▶ (Playback)	Noise Cut	○	○	—
	Effect	○	○	—
	Easy Search	○	○	—
	Play Mode	○	○	—
	Alarm	○	—	—
	AVLS *	○	○	—
✎ (Edit)	Protect	○	—	—
	Divide Current Position	○	—	—
	Move File	○	—	—
	Change Folder Name	○	—	—
	Change File Name	○	—	—
	Erase Track Mark	○	—	—
	Erase All Track Marks	○	—	—
	Divide All Track Marks	○	—	—
	Erase All	○	—	—

* for the European models only

Continued ↓

Tabs	Menu items	Operation mode (○ : the setting can be made/ —: the setting cannot be made)		
		Stop mode	Playback mode	Recording mode
 (Display)	Calendar	○	—	—
	Display	○	○	○
	LED	○	—	—
	Backlight	○	—	—
 (IC recorder setting)	Language	○	—	—
	Date&Time	○	—	—
	Time Display	○	—	—
	Beep	○	—	—
	Auto Power Off	○	—	—
	Format	○	—	—
	System Information	○	—	—

Tabs	Menu items	Settings (* : Initial setting)
 (Recording)	Scene Select  p. 27	Allows you to choose a recording scene according to each recording situation as follows:  (Meeting),  (Voice Notes),  (Interview),  (Lecture),  (Audio IN),  (My Scene). You can change the items for recording to the recommended settings in bulk.
	Scene Edit  p. 29	Edits the settings of the various recording menu items which are pre-set in the “Scene Select” menu. Edit: Changes the settings from the settings in the selected scene item. Edit from Current Setting: Changes the settings that is pre-set in the menu. Set Default Value: Changes the settings to the default settings. Execute: Changes the settings to the default settings and completes the process. Cancel: Completes the process without changing the settings.  Hint You can edit the following menu items: “REC Mode” ( p. 67), “Mic Sensitivity” ( p. 67), “LCF(Low Cut)” ( p. 67), “VOR” ( p. 31) “SYNC REC” ( p. 33), “Select Input” ( p. 32, 33). When you select “Edit Complete,” the process will be completed.

Tabs	Menu items	Settings (* : Initial setting)
🎧 (Recording)	REC Mode	Sets the recording mode. MP3 192kbps*: MP3 (compressed) in stereo standard-quality recording mode MP3 128kbps: MP3 (compressed) in long play stereo recording mode MP3 48kbps(MONO): MP3 (compressed) in monaural standard recording mode MP3 8kbps(MONO): MP3 (compressed) in long play monaural recording mode
	Mic Sensitivity	Sets the microphone sensitivity. High 🎧🔊 : To record a sound far away from the IC recorder or a low sound, such as recording in a spacious room. Medium 🎧🔊* : To record the sound of a normal conversation or meeting, such as recording in a meeting space or during interview. Low 🎧🔊 : To record dictation with a microphone in front of your mouth, a sound near the IC recorder, or a loud sound.
	LCF(Low Cut)	Sets the LCF (Low Cut Filter) function to cut a low frequency to reduce the roaring noise from wind; therefore you can record a file more clearly. ON: The LCF function is activated. OFF*: The LCF function is canceled.

Tabs	Menu items	Settings (* : Initial setting)
🎤 (Recording)	VOR (🔊 p. 31)	Sets the VOR (Voice Operated Recording) function. ON: Recording starts when the IC recorder detects sound that exceeds a specified level, and pause when sound falls below a specified level. The VOR function is activated when ● REC/PAUSE is pressed. OFF*: The VOR function does not work.
	SYNC REC (🔊 p. 33)	When set to "ON," the IC recorder enters the recording pause mode when no sound is detected for more than 2 seconds, and the IC recorder starts recording again as a new file when any sound is detected. ON: The synchronized recording function is activated. OFF*: The synchronized recording function is canceled.
	Select Input (🔊 p. 32, 33)	Selects the external input to be recorded that is connected to the 🎤 (microphone) jack. MIC IN*: Select when you record files using an external microphone. Audio IN: Select when you record using other equipment.

Tabs	Menu items	Settings (* : Initial setting)
► (Playback)	Noise Cut ( p. 38)	Sets the noise cut function and its levels. Maximum: The noise cut levels will be more intense. Medium: The noise cut level will be weakened. Select when you cannot catch the sound easily by setting “Noise Cut Level” to “Maximum.” OFF*: The noise cut function is canceled. Note When playing back files using the built-in speaker, the noise cut function does not work.
	Effect ( p. 40)	Sets the effect you want for the playback. Pop: Stresses middle ranges, ideal for vocals. Rock: Emphasizes high and low ranges for a powerful sound. Jazz: Emphasizes high ranges for lively sound. Bass1: The bass sound is emphasized. Bass2: The bass sound is emphasized even more. Custom: You can design your own custom sound level for 5 bands of EQ (100 Hz, 300 Hz, 1 kHz, 3 kHz and 10 kHz) in 7 steps (–3 to +3). OFF*: The effect function does not work. Note When playing back files using the built-in speaker, or when the noise cut function is effective ( p. 38), the effect function does not work.

Tabs	Menu items	Settings (* : Initial setting)
► (Playback)	Easy Search (🔍 p. 45)	Sets the easy search function. ON: You can go forward or backwards for the specified skip time by pressing ►► or ◀◀ during playback. This function is useful when attempting to locate desired point in a long recording. OFF*: The easy search function does not work. When you press ►► or ◀◀, a file will be moved forward or backward. Set Skip Time: Sets the time to go forward or backward when searching. Setting Complete: Changes the settings and completes the process. Forward Skip Time: Sets the time to skip forward when you press ►►. (5sec, 10sec*, 30sec, 1min, 5min, or 10min) Reverse Skip Time: Sets the time to skip backwards when you press ◀◀. (1sec, 3sec*, 5sec, 10sec, 30sec, 1min, 5min, or 10min)
	Play Mode (🔍 p. 42)	Sets the play mode. 1: A file is played back. 📁*: Files in one folder are played back continuously. ALL: All the files are played back continuously. ↺ 1: One file is played back repeatedly. ↺ 📁: Files in one folder are played back repeatedly. ↺ ALL: All the files are played back repeatedly.

Tabs	Menu items	Settings (* : Initial setting)
► (Playback)	Alarm (🔊 p. 49)	Sets the alarm. ON: The alarm function is effective. Set the date, time or day of the week or choose daily for playback, and set the following alarm pattern. Beep&Play: The selected file is played back after the alarm sounds. Beep: Only the alarm sounds. Play: Only the selected file is played back. OFF*: The alarm function is canceled.
	AVLS * ¹ (🔊 p. 15)	Sets the AVLS (Automatic Volume Limiter System) function. ON*: The AVLS function that maintains a moderate volume level is effective when listening with the headphones. OFF: The AVLS function does not work and the sound is played back at the original volume. Notes • When you turn off the function, please be careful not to listen to an excessive volume of the sound. • When you listen to the sound using the headphones for the specific period of time, the AVLS function is automatically turned on even if you set “AVLS” to “OFF” in the menu. • If you adjust the volume to a level that exceeds the AVLS-specified level, the volume will be set to a moderate volume level when you turn off the IC recorder.

*¹ for the European models only

Tabs	Menu items	Settings (* : Initial setting)
✎ (Edit)	Protect (☞ p. 62)	Protects the selected file to prevent the file from being erased, divided, or being moved. Execute: The selected file will be protected. If you specify a file that has already been protected, the protection will be canceled. Cancel: Protection or cancel protection is not executed.
	Divide Current Position (☞ p. 58)	Divides a file into two. Execute: A file will be divided into two. Cancel: File division is not executed.
	Move File (☞ p. 54)	Moves the selected file to the selected folder. Before attempting to move a file, select the file to be moved, and then go to the menu window.
	Change Folder Name (☞ p. 60)	Renames a folder by selecting a template.
	Change File Name (☞ p. 61)	Renames a file by selecting a template and prefixing the characters of the selected template to the file name.
	Erase Track Mark (☞ p. 56)	Erases the track mark just before the current position. Execute: The track mark will be erased. Cancel: The track mark will not be erased.
	Erase All Track Marks (☞ p. 57)	Erases all the track marks of the selected file. Execute: All the track marks will be erased. Cancel: All the track marks will not be erased.

Tabs	Menu items	Settings (* : Initial setting)
✎ (Edit)	Divide All Track Marks ( p. 59)	Divides a file at all the track mark positions. Execute: The track mark division is executed. Cancel: The track mark division is not executed.
	Erase All ( p. 53)	Erases all files in the selected folder. Press  to return to the folder window before erasing the files and select a folder from which all files are to be erased, and then go to the menu window. Execute: All files in the selected folder will be erased. Cancel: All files will not be erased.
📅 (Display)	Calendar ( p. 47)	Switches the display window to a calendar, and plays back a file recorded with the IC recorder by selecting a date from the calendar. Enter: The selected file is played back. Back: The IC recorder does not play the selected file and returns to the previous window.
	Display	Changes the display mode. Elapsed Time*: Elapsed playback time of one file Remain Time: During stop or playback, the remaining time of one file During recording, the available recording time REC Date: Date recorded REC Time: Time recorded

Tabs	Menu items	Settings (* : Initial setting)
 (Display)	LED	Turns the operation indicator on or off during operation. ON*: During recording or playback, the operation indicator lights or flashes. OFF: The operation indicator does not light or flash, even during operation. Note When the IC recorder is connected to a computer, the operation indicator lights or flashes even if “LED” is set to “OFF.”
	Backlight	Turns the backlight in the display window on or off. ON*: The backlight in the display window lights up for approx. 10 seconds. OFF: The backlight in the display window does not light, even during operation.
 (IC recorder setting)	Language ( p. 21)	Sets the language to be used for messages, menus, folder names, file names, etc. Deutsch (German), English, Español (Spanish), Français (French), Italiano (Italian), Русский (Russian) Note Number of language options you can select and the default setting differ depending on the country or region you purchased your IC recorder.
	Date&Time ( p. 19)	Auto(Synchronizing)*: When the IC recorder is connected to a computer that is running the Sound Organizer, the clock will be automatically adjusted according to that computer. Manual: Sets the clock by setting year, month, day, hour, and minute in sequence.

Tabs	Menu items	Settings (* : Initial setting)
 (IC recorder setting)	Time Display	Sets the clock display. 12-Hour: 12:00AM = midnight, 12:00PM = noon 24-Hour: 0:00 = midnight, 12:00 = noon Note The default setting differs depending on the area you purchased your IC recorder.
	Beep	Sets whether a beep will be heard or not. ON*: A beep will sound to indicate that an operation has been accepted or an error has occurred. OFF: No beep sound will be heard. Note The alarm sounds even if you set “Beep” to “OFF” in the menu.
	Auto Power Off	If there is no operation attempted for the period you have set, the IC recorder turns off automatically. 5min: The IC recorder will be turned off after approx. 5 minutes. 10min*: The IC recorder will be turned off after approx. 10 minutes. 30min: The IC recorder will be turned off after approx. 30 minutes. 60min: The IC recorder will be turned off after approx. 60 minutes. OFF: The IC recorder will not be turned off automatically.

Tabs	Menu items	Settings (* : Initial setting)
 (IC recorder setting)	Format	Formats the built-in memory, erasing all the data in the memory and resetting the folder structure to its default status. Execute: The “Formatting...” animation appears and the built-in memory will be formatted. Cancel: The built-in memory will not be formatted. Notes • When you format the built-in memory, all the data which you have stored on the memory will be erased. Once the memory has been erased, you cannot retrieve the data that was erased. • When you format the built-in memory, the operating instructions stored in the built-in memory will also be erased. To get another copy of the operating instructions, please visit the Sony support home page depending on your area (☞ p. 94).
	System Information	Displays the IC recorder model name and the version number of the software.

Using the IC Recorder with Your Computer

When the IC recorder is connected to your computer, you can transfer data between them.

Copying files from the IC recorder to your computer to store them (👉 p. 82)

Copying music files from your computer to the IC recorder to play them back (👉 p. 83)

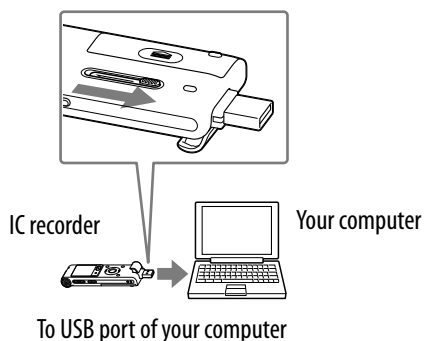
Using the IC recorder as USB memory (👉 p. 85)

You can store image data or text data stored on the computer temporarily in the IC recorder.

System requirements for your computer

For details on the system requirements for your computer, see page 89.

Connecting the IC recorder to your computer



To exchange files between the IC recorder and your computer, connect the IC recorder to your computer.

- 1 Slide the USB DIRECT slide lever on the back of the IC recorder, and insert the USB connector into the USB port of a running computer.**

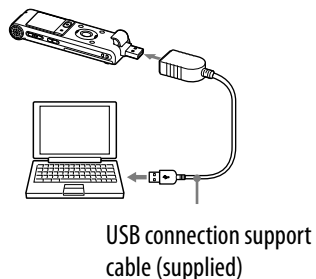
- 2 Make sure the IC recorder has been recognized properly.**

On the Windows screen; open “My Computer” or “Computer,” and make sure that “IC RECORDER” has been recognized.

On the Macintosh screen; make sure that an “IC RECORDER” drive is displayed on the Finder.

The IC recorder is recognized by the computer as soon as the connection is made. While the IC recorder is connected to the computer, “Connecting” is displayed in the display window of the IC recorder.

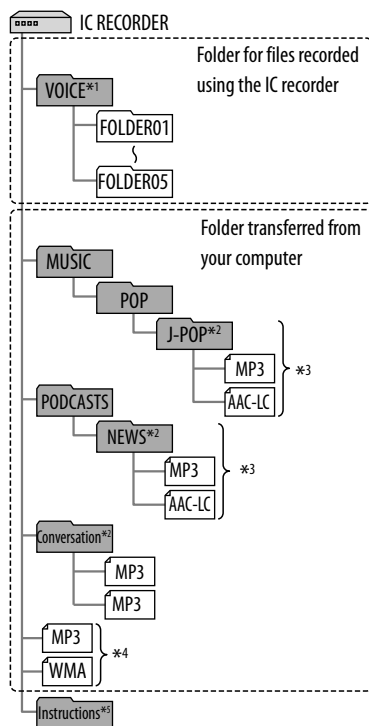
If the IC recorder cannot be connected to a computer directly, use the supplied USB connection support cable.



Structure of folders and files

The folders and files are displayed on the computer screen as shown. On a Windows screen using Explorer, and on a Macintosh screen using Finder, folders and files can be displayed by opening “IC RECORDER.”

Built-in memory



- *¹ Even if a file is transferred directly under the VOICE folder, it will not be displayed on the tab of the IC recorder. When you transfer a file from your computer to the IC recorder, put the file in the folders under the VOICE folder.
- *² The name of a folder in which music files are stored will be displayed on the IC recorder as it is, so it is convenient if you put an easy-to-remember name on the folder in advance.
Folders shown in the illustration are examples of folder names.
- *³ The IC recorder can recognize up to 8 levels of folders transferred to the IC recorder.
- *⁴ If you transfer music files separately, they are classified as being in “No Folder.”
- *⁵ The operating instructions of the IC recorder are stored in the “Instructions” folder directly under the “IC RECORDER” folder.

Hints

- The title or artist name, etc., registered in the music files, can be displayed on the IC recorder. It is useful if you input the ID3 tag information using the software you use to make the music files on your computer.
- If no title, or artist name has been registered “No Data” will be displayed in the display window of the IC recorder.

Structure of folders displayed in the display window of the IC recorder

The display of the structure of the folders seen in the display window of the IC recorder is different from that seen on the display of a computer.

The folder indicators in the display window of the IC recorder are as follows:

- 📁 : Folder for files recorded using the IC recorder
- 📁 : Folder transferred from a computer (They are displayed when music files have been transferred from a computer.)
- 📁 : Folder for podcast files transferred from a computer (These folders are displayed when podcast files have been transferred from a computer.)

Note

If folders have no files that can be played back using the IC recorder, those folders will not be displayed in the display window of the IC recorder.

Folders displayed on the 🗣️ tab of the IC recorder



Folders for files recorded using the IC recorder (folders under the VOICE folder) will be displayed.

Note

Even if a file is transferred directly under the VOICE folder, it will not be displayed on the 🗣️ tab of the IC recorder.

Folders displayed on the 🎵 tab of the IC recorder



The following folders will be displayed among the folders forwarded from a computer.

- Folders under the MUSIC folder which contains a file (when some folders have multiple levels, all folders will be displayed in parallel.)
- Folders transferred to places other than under the MUSIC folder or the PODCASTS folder
- A folder called “No Folder” (If you transfer music files separately, those files will be displayed under this folder.)

Folders displayed on the tab of the IC recorder



Folders for podcast files transferred from a computer will be displayed.

Disconnecting the IC recorder from your computer

Follow the procedures below; otherwise, data may be damaged.

- 1 Make sure that the operation indicator of the IC recorder does not light.**

- 2 Perform the following operation on your computer.***

On the Windows taskbar at the bottom right of the desktop, left-click the following icon:

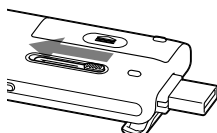


➔ Left-click “Eject IC RECORDER” (Windows 7), or “Safely remove USB Mass Storage Device” (Windows XP, Windows Vista).

The icon and menu displayed can be different on different operating systems. The icon may not be always displayed on the taskbar depending on your computer settings.

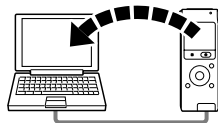
On a Macintosh screen, click the “IC RECORDER” ejection icon on the Finder.

- 3 Disconnect the IC recorder from the USB port of the computer, and slide the USB DIRECT slide lever in the direction of the arrow to retract the USB connector.**



* For details on disconnecting the IC recorder from your computer, refer to the operating instructions supplied with your computer.

Copying Files from the IC Recorder to Your Computer



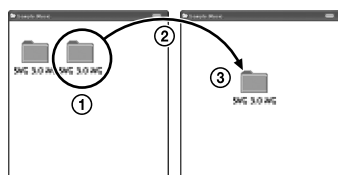
You can copy the files and folders from the IC recorder to your computer to store them.

1 Connect the IC recorder to your computer (☞ p. 78).

2 Copy files or folders you want to transfer to your computer.

Drag and drop the files or folders you want to copy from “IC RECORDER” to the local disk on your computer.

 **To copy a file or folder (Drag and drop)**



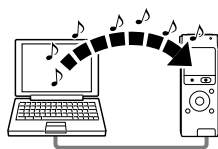
IC RECORDER

Your computer

- ① Click and hold,**
- ② drag,**
- ③ and then drop.**

3 Disconnect the IC recorder from your computer (☞ p. 81).

Copying Music Files from Your Computer to the IC Recorder and Playing Them Back



You can copy music or the other audio files (MP3(.mp3)/WMA(.wma)/AAC-LC(.m4a)*) from your computer to the IC recorder by dragging and dropping them, and you can play them back using the IC recorder.

* For the file formats that can be played back using the IC recorder, see “Specifications”

(☞ p. 89).

Copying a music file from your computer to the IC recorder (drag and drop)

1 Connect the IC recorder to your computer (☞ p. 78).

2 Copy the folder in which the music files are stored to the IC recorder.

On a Windows screen using Explorer, or on a Macintosh screen using Finder, drag and drop the folder containing the music files onto “IC RECORDER.”

The IC recorder can recognize up to 400 folders. You can copy up to 199 files to one folder. Moreover, the IC recorder can recognize up to a total of 4,095 folders and files for one memory media.

3 Disconnect the IC recorder from your computer (☞ p. 81).

Playing back music files copied from your computer using the IC recorder

- 1 Press .
- 2 Press , press  or  to select the  tab, and then press /ENT.
- 3 Press  or  to select the folder () in which music files are stored, and then press /ENT.
To display the files contained in the selected folder, press .
- 4 **Select the music file you want to play.**
When the file selection window is displayed, press  or  to select the desired file, and then press /ENT.
When the stop mode window is displayed, you can switch files by pressing  and .
- 5 Press /ENT to start playback.
- 6 Press  STOP to stop playback.

Display when playing back a music file

Press  or  to check the music file information during playback.



 : Folder name

 : File name

 : Artist name

 : Title name

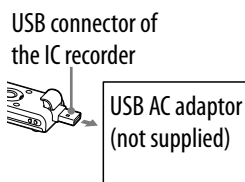
Using the IC Recorder as USB Memory

When the IC recorder is connected to your computer, image data or text data on the computer, as well as files recorded using the IC recorder can be temporarily stored on the IC recorder.

Your computer must meet the specified system requirements to use the IC recorder as USB memory.

For details on the system requirements, see page 89.

Using a USB AC Adaptor



You can use the IC recorder by connecting the IC recorder to an AC outlet using a USB AC adaptor (not supplied). It is useful when you want to record for a long time.

- 1 Connect a USB AC adaptor to an AC outlet.**
- 2 Slide the USB DIRECT slide lever on the back of the IC recorder and connect the USB connector to the USB AC adaptor.**

Disconnecting the IC recorder from the AC outlet

Follow the procedures below; otherwise, when the IC recorder contains data files, the files may be damaged or become unplayable.

- 1 If you are recording or playing back a file, press ■ STOP to put the IC recorder into the stop mode.**
- 2 Make sure that the operation indicator of the IC recorder does not light.**
- 3 Disconnect the IC recorder from the USB AC adaptor, and then disconnect the USB AC adaptor from the AC outlet.**

Precautions

On power

Operate the unit only on 1.5 V or 1.2 V DC. Use one LR03 (size AAA) alkaline battery or one NH-AAA rechargeable battery.

On safety

Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling

- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the battery and have the unit checked by qualified personnel before operating it any further.
- Be careful not to allow water to splash on the unit. The unit is not water-proof. In particular, be careful in the following situations.
 - When you have the unit in your pocket and go to the bathroom, etc.
When you bend down, the unit may drop into the water and may get wet.
 - When you use the unit in an environment where the unit is exposed to rain, snow, or humidity.
 - In circumstances where you get sweaty. If you touch the unit with wet hands or if you put the unit in the pocket of sweaty clothes, the unit may get wet.
- You may feel pain in your ears if you use the headphones when the ambient air is very dry. This is not because of a malfunction of the headphones, but because of static electricity accumulated in your body. You can reduce static electricity by wearing non-synthetic clothes that prevent the emergence of static electricity.

On noise

- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording.

On maintenance

To clean the exterior, use a soft cloth slightly moistened in water. Then use a soft dry cloth to wipe the exterior. Do not use alcohol, benzine or thinner.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Backup recommendations

To avoid potential risk of data loss caused by accidental operation or malfunction of the IC recorder, we recommend that you save a backup copy of your recorded files to a computer, etc.

Specifications

System requirements

To use your computer with the IC recorder, or to use the IC recorder as a USB mass storage device, your computer must meet the operating system requirements and port environment described below.

Operating systems

- Windows 7 Ultimate
- Windows 7 Professional
- Windows 7 Home Premium
- Windows 7 Home Basic
- Windows 7 Starter
- Windows Vista Ultimate Service Pack 2 or higher
- Windows Vista Business Service Pack 2 or higher
- Windows Vista Home Premium Service Pack 2 or higher
- Windows Vista Home Basic Service Pack 2 or higher
- Windows XP Media Center Edition 2005 Service Pack 3 or higher
- Windows XP Media Center Edition 2004 Service Pack 3 or higher*
- Windows XP Media Center Edition Service Pack 3 or higher*
- Windows XP Professional Service Pack 3 or higher
- Windows XP Home Edition Service Pack 3 or higher
- Mac OS X (v10.3.9-v10.7)

Pre-installed.

*Excluding China

Notes

- One of the above operating systems should be by default pre-installed. Any operating system other than those indicated above (Windows 98, Windows 2000 or Linux, etc.), upgraded operating systems or multi-boot environment are not supported.
- 64 bit versions of Windows XP are not supported.
- For the latest version information and compatibility with your operating system, please access the support home page for the IC recorder (🔗 p. 94).

Hardware environment:

- Sound board: Sound boards compatible with any of the supported operating systems
- Port: USB port

Notes

The following systems are not supported:

- Operating systems other than the ones indicated on page 89
- Personally constructed computers or operating systems
- Upgraded operating systems
- Multi-boot environment
- Multi-monitor environment

Design and specifications

IC Recorder section	
Capacity (User available capacity)	
2 GB (approx. 1.80 GB = 1,932,735,283 Byte)	
A part of the memory capacity is used as a management area.	
Maximum number of folders (for a drive)	
400 folders	
Maximum number of files (for a folder)	
199 files	
Maximum number of files (for a drive)	
4,074 files (When 21 folders are contained in a drive.)	
Frequency range	
MP3 192kbps	50 Hz - 20,000 Hz
MP3 128kbps	50 Hz - 16,000 Hz
MP3 48kbps(MONO)	50 Hz - 14,000 Hz
MP3 8kbps(MONO)	60 Hz - 3,400 Hz
Compatible file formats	
MP3 ^{*1}	Bit rate: 32 kbps - 320 kbps (Supports variable bit rate (VBR)) Sampling frequencies: 16/22.05/24/32/44.1/48 kHz File extension: .mp3 ^{*1} The playback of MP3 files recorded using the IC recorder is also supported. Not all encoders are supported.
WMA ^{*2}	Bit rate: 32 kbps - 192 kbps, (Supports variable bit rate (VBR)) Sampling frequencies: 44.1 kHz File extension: .wma ^{*2} WMA Ver. 9 is compatible, however, MBR (Multi Bit Rate), Lossless, Professional, and Voice are not supported. Copyright-protected file cannot be played back. Not all encoders are supported.
AAC-LC ^{*3}	Bit rate: 16 kbps - 320 kbps, (Supports variable bit rate (VBR)) Sampling frequencies: 11.025/12/16/22.05/24/32/44.1/48 kHz File extension: .m4a ^{*3} Copyright-protected file cannot be played back. Not all AAC encoders are supported.

General section	
Speaker	
Approx. 16 mm (21/32 in.) dia.	
Input/Output	
Microphone jack	(minijack, stereo) input for plug in power, minimum input level 0.9 mV
Headphone jack	(minijack, stereo) recommended load impedance: 16 ohms
USB connector	(Type-A) High-Speed USB compatible
Playback speed control (DPC)	
2.00 times - 0.50 times	MP3/WMA/AAC-LC
Power output	
90 mW	
Power requirements	
One LR03 (size AAA) alkaline battery (supplied)	1.5 V DC
One NH-AAA rechargeable battery (not supplied)	1.2 V DC
Operating temperature	
5 °C - 35 °C (41 °F to 95 °F)	
Dimensions (w/h/d) (not incl. projecting parts and controls) (JEITA)*⁴	
Approx. 36.6 mm × 102.0 mm × 14.6 mm (1 1/2 × 4 1/8 × 19/32 inches)	
Mass (JEITA)*⁴	
Approx. 56 g (2 oz) including one LR03 (size AAA) alkaline battery	
* ⁴ The standard of JEITA (Japan Electronics and Information Technology Industries Association)	
Supplied accessories	
See supplied Quick Start Guide	

Design and specifications are subject to change without notice.

Maximum recording time^{*5*6}

The maximum recording time of all the folders is as follows.

REC mode		Recording scene ^{*7}	Built-in memory
MP3 192kbps	Stereo standard-quality recording mode	 /  /  /  / 	22h. 20m.
MP3 128kbps	Long play stereo recording mode		33h. 30m.
MP3 48kbps (MONO)	Monaural standard recording mode		89h. 25m.
MP3 8kbps (MONO)	Long play monaural recording mode		536h.

h.: hours/m.: minutes

^{*5} When you are going to record continuously for a long time, you may have to replace the battery with new one in the midst of recording. For details on the battery life, see the table on page 93.

^{*6} The maximum recording time in the above table is for your reference only.

^{*7} Default settings

The maximum playback time of a music file /number of files^{*8}

Bit rate	Playback time	Number of files
48 kbps	89h. 25m.	1341 files
128 kbps	33h. 30m.	502 files
256 kbps	16h. 45m.	251 files

h.: hours/m.: minutes

^{*8} In the case where MP3 files of 4 minutes each are transferred to the IC recorder.

Battery life

When using a Sony LR03 (SG) (size AAA) alkaline battery *¹

REC Mode	Recording	Playback through speaker* ²	Playback using the headphones
MP3 192kbps	Approx. 29h.	Approx. 22h.	Approx. 61h.
MP3 128kbps	Approx. 31h.	Approx. 22h.	Approx. 61h.
MP3 48kbps (MONO)	Approx. 33h.	Approx. 22h.	Approx. 61h.
MP3 8kbps (MONO)	Approx. 42h.	Approx. 22h.	Approx. 61h.
Music file (128 kbps/44.1kHz)	—	Approx. 22h.	Approx. 61h.

h.: hours

When using a Sony NH-AAA rechargeable battery*¹

REC Mode	Recording	Playback through speaker* ²	Playback using the headphones
MP3 192kbps	Approx. 24h.	Approx. 15h.	Approx. 39h.
MP3 128kbps	Approx. 24h.	Approx. 15h.	Approx. 39h.
MP3 48kbps (MONO)	Approx. 25h.	Approx. 15h.	Approx. 39h.
MP3 8kbps (MONO)	Approx. 30h.	Approx. 15h.	Approx. 39h.
Music file (128 kbps/44.1kHz)	—	Approx. 15h.	Approx. 39h.

h.: hours

*¹ Measured value by the standard of JEITA (Japan Electronics and Information Technology Industries Association). The battery life may shorten depending on how you operate the IC recorder.

*² When playing back music through the internal speaker with the volume level set to 13

Troubleshooting

Before taking the IC recorder for repair, check the following sections. Should any problem persist after you have made these checks, consult your nearest Sony dealer.

Please access the following support home page to get the support information about your IC recorder:

For customers in Europe:

<http://support.sony-europe.com/DNA>

For customers in Latin America:

<http://www.sony-latin.com/index.crp>

For customers in the U.S.A.:

<http://www.sony.com/recordersupport>

For customers in Canada:

<http://www.sony.ca/ElectronicsSupport>

<http://fr.sony.ca/ElectronicsSupport>

For customers in other countries/regions:

<http://www.sony-asia.com/support>

Note that recorded files may be deleted during service or repair work.

On the IC recorder operations

Noise

Noise is heard.

- An object, such as your finger, etc., accidentally rubbed or scratched the IC recorder during recording so that noise was recorded.
- The IC recorder was placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- The plug of the connected external microphone (not supplied) is dirty.
→ Clean the plug.
- The plug of the connected headphones is dirty.
→ Clean the plug.

Power source**The IC recorder cannot be turned on. The IC recorder does not operate, even if you press any button.**

- The battery is weak.
- The battery has been inserted with incorrect polarity (☞ p. 16).
- The power of the IC recorder is off.
 - ➔ Slide and hold the HOLD•POWER switch in the direction of “POWER” until the window display appears. The power is turned on (☞ p. 17).
- The HOLD function is activated.
 - ➔ Slide the HOLD•POWER switch in the center direction (☞ p. 14).

The IC recorder cannot be turned off.

- Slide and hold the HOLD•POWER switch in the direction of “POWER” until “Power Off” animation is displayed when the IC recorder is stopped. The power is turned off (☞ p. 17).

The IC recorder is powered off automatically.

- When the IC recorder is in the stop mode and you leave the IC recorder without attempting an operation for a certain length of time, the auto power off function will take effect. (The length of time before auto power off is set to “10min” when you purchase the IC recorder.) You can select the length of time before auto power off takes effect in the menu (☞ p. 75).

The battery life is short.

- The battery life on page 93 is based on playback with the volume level set to 13. The battery life may shorten depending on the operation of the IC recorder.
- Even if you do not use the IC recorder, the battery is consumed slightly. If you do not intend to use the IC recorder for an extended period of time, it is recommended that you turn the power off (☞ p. 17) or remove the battery. Moreover, if you set “Auto Power Off” to a short span in the menu (☞ p. 75), you can prevent the battery from being consumed due to forgetting to turn the IC recorder off.
- You are using a battery in an environment with a temperature of under 5 °C (41 °F). Battery life becomes shorter as a result of the battery characteristics. This is not a malfunction.
- You are using a manganese battery for this IC recorder. You cannot use the IC recorder with a manganese battery.

Operating

The IC recorder does not operate correctly.

- Take out the battery and insert it again.
- You may have formatted the memory of the IC recorder using the computer.
 - Use the IC recorder formatting function to format the memory (🔧 p. 76).

The operation indicator does not light.

- “LED” is set to “OFF”
 - Display the menu and set “LED” to “ON” (🔧 p. 74).
-

Recording

You cannot record a file.

- The remaining memory capacity is insufficient.
- You cannot record a file when you select a folder in the playback-only area (the 🎵 tab and the 📁 tab).

Recording is interrupted.

- The VOR function is activated. When you are not using the VOR function, set “VOR” to “OFF” in the menu (🔧 p. 31).

The VOR function does not work.

- During synchronized recording, the VOR function does not work.

When recording from other equipment, the input level is too strong or not strong enough.

- Connect the headphone jack of other equipment to the 🎧 (microphone) jack of the IC recorder and adjust the volume level on the piece of equipment connected to the IC recorder.
-

Playback

The playback volume is low.

- The built-in speaker is mainly for monitoring, and the playback volume is low.
→ Use the supplied headphones.

No sound comes from the speaker.

- Headphones are plugged in (🔌 p. 44).

Sound comes from the speaker even when the headphones are plugged in.

- If you plug in the headphones not securely during playback, the sound may come from the speaker.
→ Unplug the headphones, and then insert them securely.

Sound effect does not change even when the “Effect” setting is changed.

- When you are using the built-in speaker, the effect function is invalid.
- When the noise cut function is effective, the effect function does not work.

Playback speed is too fast or too slow.

- The DPC(SPEED CTRL) switch to “ON,” and the playback speed is adjusted with ▲ or ▼.
→ Slide the DPC(SPEED CTRL) switch to “OFF” or press ▲ or ▼ to adjust the speed in DPC again (🔌 p. 39).

Playback sound is not good when a music file is played back.

- The noise cut function is effective.
→ When you play back a music file, set “Noise Cut” to “OFF” (🔌 p. 38).

Editing

You cannot divide a file.

- You need a certain amount of free space in the memory to divide a file.
- 199 files have been recorded in the selected folder (📁).
→ Erase some of the files (🔌 p. 52) or erase all the files after you store them on your computer or other device.
- Because of the system limitations, you may not be able to divide a file at the very beginning or at the very end of the file.
- You cannot divide files other than those recorded using the IC recorder (e.g., a file transferred from a computer).

You cannot move a file.

- You cannot move a 🎧 (Podcast) file.
- You cannot move a protected file.

Clock

"--:--" is displayed.

- You have not set the clock (🔧 p. 18).

"--y--m--d" or "--:--" is displayed on the REC Date display.

- The date of recording will not be displayed if you recorded the file when the clock was not set.

Display

There are fewer menu items displayed in the menu mode.

- During playback or recording modes, there are menu items that are not displayed (🔧 p. 64).

The remaining time displayed in the display window is shorter than that displayed in the computer.

- The IC recorder requires a certain amount of memory for system operation. That amount is subtracted from the remaining time, which is the reason for the difference.

Files

The "Memory Full" animation is displayed and you cannot start recording.

- The memory is full.
 - ➔ Erase some of the files (🔧 p. 52) or erase all the files after you store them on the your computer or other device.

The "File Full" animation is displayed and you cannot operate the IC recorder.

- 199 files have been recorded in the selected folder (📁) or 4,074 files (when there are 21 folders) in total have been recorded. Therefore you cannot record another file, or move a file.
 - ➔ Erase some of the files (🔧 p. 52) or erase all the files after you store them on your computer or other device.

Computers

Menu does not reflect the change in settings.

- If the battery is removed just after the menu setting is changed, the menu setting may not function.

A character in a folder or file name is displayed in unreadable characters.

- The IC recorder cannot support or display some special characters and symbols that are entered on a computer using Windows Explorer or the Macintosh Finder.

It takes a long time to copy a file.

- If the file size of a file is large, it takes a considerable time to finish copying. Wait until the copying is finished.

The IC recorder is not recognized by your computer. A folder/file cannot be transferred from your computer.

- Disconnect the IC recorder from your computer and reconnect it.
- Do not use a USB hub or USB extension cable other than supplied USB connection support cable. Connect the IC recorder directly to your computer or use the supplied USB connection support cable.
- Operation is not guaranteed if you use any system requirements other than those described on page 89.
- Depending on the USB port position, the IC recorder may not be recognized. If this happens, try another port.

The file transferred from your computer cannot be played back.

- The IC recorder can recognize up to 8 levels of folders transferred to the IC recorder.
- The file format may differ from those that can be played back using the IC recorder (MP3(.mp3)/WMA(.wma)/AAC-LC(.m4a)). Check the compatible file formats (📄 p. 90).

The computer cannot start.

- If you reboot the computer with the IC recorder connected to the computer, the computer may freeze or may not start properly.
→ Disconnect the IC recorder from the computer and reboot the computer again.
-

Messages List

Follow the instructions below if a message appears in the display.

Message	Cause/Remedy
HOLD Slide HOLD Switch to Activate.	All the button operations are disabled because the IC recorder is in the HOLD status to prevent unintentional operations. Slide the HOLD•POWER switch towards the center to release the IC recorder from the HOLD status (🔧 p. 14).
Low Battery Level	You cannot format the memory or erase all the files in a folder because of insufficient battery power. Replace the exhausted battery with a new LR03 (size AAA) alkaline battery or a fully-charged NH-AAA rechargeable battery (not supplied).
Low Battery	The battery is exhausted. Replace the exhausted battery with a new LR03 (size AAA) alkaline battery or a fully-charged NH-AAA rechargeable battery (not supplied).
Memory Full	The remaining memory capacity of the IC recorder is insufficient. Erase some files before recording.
File Full	When there are already the maximum number of files in the selected folder or the total number of files stored on the IC recorder has exceeded the maximum, you cannot record a new file. Erase some files before recording.
Settings are Full	When you rename a folder, there are already 10 folders with the same folder name as the folder you selected. Please select a different folder name from the templates.
Track Marks are Full	You can set up to 98 track marks for a file. Cancel unwanted track marks (🔧 p. 56).
File Damaged	You cannot play back or edit files, because the data of the selected file is damaged.
Built-In Memory Needs to be Formatted	The IC recorder cannot be turned on using the computer because there is no copy of the control file required for operation. Format the IC recorder using the formatting function in the menu (🔧 p. 76). Do not use your computer to format the IC recorder.
Process Error	- Remove and then re-insert the battery. - Save a backup copy of your data and format the IC recorder using the menu (🔧 p. 76).

Message	Cause/Remedy
Set Date&Time	Set the clock; otherwise, you cannot set the alarm.
No File	The selected folder does not have any files. You cannot move a file or set the alarm, etc., because of this.
No Track Marks	There are no track marks when you attempt to erase a track mark or track marks, or divide a file at all the track mark positions.
File Protected	The selected file is protected or is a “Read only” file. You cannot erase it. Cancel the protection on the IC recorder or cancel “Read only” on your computer to edit the file using the IC recorder.
Already Set	You set the alarm to play back a file at a date and time previously set on another file. Change the alarm setting.
Past Date/Time	You set the alarm when the time has already passed. Check it and set the appropriate date and time (🔍 p. 49).
Unknown Data	- This data is not in a file format that is supported by the IC recorder. The IC recorder supports MP3(.mp3)/WMA(.wma)/AAC-LC(.m4a) files. For details, see “Design and specifications” (🔍 p. 90). - You cannot play back copyright protected files.
Invalid Operation	- You cannot divide or set a track mark in files in the folder in the playback-only area (the 🎵 tab and the 📁 tab). - The file name has reached the maximum number of characters; you cannot divide the file. Shorten the file name. - The “Divide All Track Marks” function cannot be used because there is a track mark within 0.5 seconds from the dividing position. - The “Divide All Track Marks” function cannot be used because there is a track mark within 0.5 seconds from the beginning of a file or the end of a file. - The file length is less than 1 second; you cannot divide such a short file. - The “Divide Current Position” function cannot be used at a position within 0.5 seconds from the beginning of a file or the end of a file.
New File	The file being recorded has reached the maximum size limit (1 GB). The file will be divided automatically and recording will continue as a new file.

Message	Cause/Remedy
Invalid when Noise Cut is ON	When the noise cut function is effective, the effect function does not work. Set “Noise Cut” to “OFF” (🔊 p. 38).
Change Folder	If there are no files in the 📁 or 📁 folder, no folders are displayed in the display window. A folder containing a file will be displayed.
Cannot Divide - Exceeds Max 199 Files in Folder	When there are already 199 files in the selected folder or the total number of files stored on the IC recorder exceeds the maximum, you cannot divide a file. Erase some files before dividing a file.
Same File Name Exists	A file of the same file name already exists in the folder, so a file cannot be created or renamed.
Erased Track Marks too near Divide Point	When there is a track mark set within 0.5 seconds from the dividing position, the track mark is automatically erased.
AVLS*	The volume of the playback sound exceeds the AVLS-specified level. Adjust the volume to a moderate level.
System Error	A system error other than the above has occurred. Remove the battery and re-insert it.

*: for the European models only

System Limitations

There are some system limitations of the IC recorder. Troubles as mentioned below are not malfunctions of the IC recorder.

Symptom	Cause/Remedy
You cannot display or play back music files in order.	If you have transferred music files using your computer, those files may not be transferred in order of transfer because of system limitations. If you transfer music files from your computer to the IC recorder one by one, you can display and play back the music files in transferred order.
A file is divided automatically.	The file being recorded has reached the maximum size limit (1 GB). Therefore it is automatically divided.
You cannot enter lower-case characters.	Depending on the combination of the characters used for the folder name that was made on your computer, those characters may change to all capitals.
“□” is displayed in place of a folder name, title, artist name, or file name.	A character which cannot be displayed on the IC recorder has been used. Using your computer, replace it with one which can be displayed on the IC recorder.
When you set A-B repeat playback, the set positions move a little.	Depending on the files, the set positions may move.
The remaining recording time becomes shorter when you divide a file.	You need a certain amount of free space for a file management area to divide a file, therefore the remaining recording time will be shortened.

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Index

A

A-B repeat 43
 AAC-LC files 90
 Adjusting the volume 25, 35
 Alarm 49, 64, 71
 Alkaline battery 93
 AVLS (Automatic Volume Limiter System) 15, 64, 71

B

Battery life 93
 Built-in memory 79
 Built-in microphones 24

C

Calendar 47, 65, 73
 Changing a file name 61, 64, 72
 Changing a folder name ... 60, 64, 72
 Changing the Scene Select settings 29, 64, 66
 Connecting the IC recorder to your computer 78
 Copying files to your computer 82
 Copying music files to the IC recorder 83
 Cue 44

D

Displaying the current date and time 20
 Display window 9
 Dividing a file at all the track mark positions 59, 64, 73
 Dividing a file at the current position 58, 64, 72
 DPC (Digital Pitch Control) 39

E

Easy search 45, 64, 70
 Editing files 54
 Effect 40, 64, 69
 Erasing 52
 Erasing all files in a folder 53, 64, 73
 Erasing all the track marks 57, 64, 72
 Erasing a track mark 56, 64, 72
 External microphone 32

F

Folder 22, 60, 79

H

HOLD 14
 HOLD•POWER switch 14, 17

I

Index to parts and controls
 Display window 9
 Front 7
 Rear 8
 Input selection 32, 34, 64, 68

M

Maintenance 88
 Menu
 Alarm 64, 71
 Auto Power Off 65, 75
 AVLS 64, 71
 Backlight 65, 74
 Beep 65, 75
 Calendar 65, 73
 Change File Name 64, 72
 Change Folder Name 64, 72
 Date&Time 65, 74
 Display 65, 73
 Divide All Track Marks 64, 73
 Divide Current Position 64, 72
 Easy Search 64, 70
 Effect 64, 69
 Erase All 64, 73

Erase All Track Marks	64, 72
Erase Track Mark	64, 72
Format	65, 76
Language	65, 74
LCF(Low Cut)	64, 67
LED	65, 74
Making settings	63
Menu Settings	64
Mic Sensitivity	64, 67
Move File	64, 72
Noise Cut	64, 69
Play Mode	64, 70
Protect	64, 72
REC Mode	64, 67
Scene Edit	64, 66
Scene Select	64, 66
Select Input	64, 68
SYNC REC	64, 68
System Information	65, 76
Time Display	65, 75
VOR	64, 68
Messages list	100
Monitoring the recording	25
Moving a file	54, 64, 72
MP3 files	90

N

Noise	87
Noise cut	38, 64, 69

P

Pause recording	26
Playback	35
Playback speed	39
Playback time	92
Play modes	42, 64, 70
Precautions	87
Protecting a file	62, 64, 72

R

Rechargeable battery	16, 93
Recording	24
Recording from a telephone	32
Recording from other equipment	33
Recording level guide	25
Recording time	92
Recording with an external microphone	32
Recording with other equipment	51
Remaining recording time	37
Review	26, 44

S

Scene selection	27, 64, 66
Selecting a folder and a file	22
Selecting a tab	23
Setting the clock	18, 65, 74
Setting the language	21, 65, 74
Specifications	89
Synchronized recording	33, 64, 68
System limitations	103
System requirements	89

T

Tab view	13
Track mark	55
Troubleshooting	94

U

USB AC adaptor	86
USB Memory	85
Using the IC recorder with your computer	77

V

VOR (Voice Operated Recording)	31, 64, 68
---	------------

W

WMA files	90
-----------------	----